UNIVERSITY OF LONDON

UNIVERSITY COLLEGE ANNUAL REPORT 1959-1960

UNIVERSITY COLLEGE
LONDON

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OFFICERS OF THE COLLEGE

CHAIRMAN OF THE COLLEGE COMMITTEE

THE RIGHT HON. LORD COHEN, P.C.

VICE-CHAIRMAN OF THE COLLEGE COMMITTEE AND TREASURER

SIR FREDERICK JAMES, O.B.E.

PROVOST

SIR IFOR EVANS, D.LIT.

SECRETARY

E. A. L. GUETERBOCK, M.A.

REPORT OF THE CHAIRMAN OF THE COLLEGE COMMITTEE AND THE PROVOST

The visit of the University Grants Committee during the session gave an opportunity for an assessment of policy and of future needs. The College was encouraged to hear from the University Grants Committee a warm endorsement of its own proposals to continue with work for the honours degree at the undergraduate stage and increasingly to become a centre for postgraduate instruction and research. Ultimately at the undergraduate and postgraduate stage it will have a body of over 4,000 full-time students.

All that stands between the College and the realisation of its purpose is the slowness with which its building programme is being executed. The College obtains its share of the Government funds which are available to the Court of the University, but these are themselves so meagre that the College programme of development has been disappointingly slow. In addition to problems of development the College has been faced, as a result of war damage, with most serious problems of replacement and of obsolescence. The solution to these questions lies in Government policy, but it is distressing to think that men of the highest distinction, whose work is of great importance from a national point of view, are working in inadequate and obsolescent buildings. Their work could be greatly improved and the number of their students substantially increased if there were a substantial increase in the allocation of capital funds for university buildings. The minuteness of the capital grant available has affected not only academic undertakings but also the housing of students in London. It is our policy, though we have never been able to put it into effect, that every student should spend at least one year in a hall of residence. Yet less than ten per cent of the full-time students of University College are in its halls of residence and there has been no improvement in the situation during the last decade, despite the fact that a site remains idle and empty near to the College upon which building could begin as soon as funds were available.

On the long view, the position of the College as far as sites are concerned has reached a more reassuring stage. The University and the College have given a general approval to Sir Leslie Martin's plan

for a University precinct which will cover the College rectangle, the Senate House and other buildings of the University in the adjoining Bloomsbury area. As a result of this proposal the University has ceded to the College a most valuable site on the east side of Gordon Street, which will give space for a new Chemistry Department and will allow, in due time, for an adjustment of other departments within the rectangle itself. Yet the fulfilment of the Martin plan will still leave the College short of space for its academic departments, and the plan makes no provision for halls of residence.

All these projects, unfortunately, are of a long term nature and the College has to consider how in the intervening period it can seek some additional buildings so that the essential work of the College shall not be held up, and how on the long term, provision of accommodation other than in the rectangle can be obtained. If the College is to give reasonable development to its scientific departments and if it is at the same time to give room for the proper development of its great departments in the humanities, which have been treasured as one of the major traditions of the College, there will be a need immediately for further sites outside the rectangle, which can be developed during the next few years. A search is being made for such new territory and discussions are taking place both with the Court of the University and with the University Grants Committee.

The College realises that the country is faced with the very difficult problem of increasing the number of students in all the universities in this country from 82,000 in 1956 to 170,000 in 1970. It fears that the housing of these vast new numbers will tend to obscure the special problems which face a centre of advanced studies such as University College during the next decade. Great departments such as exist in the College cannot be built overnight. They develop traditions of work which are the result of the close and insistent labour of brilliant and dedicated men over a period of many years, but constantly they need reasonable opportunities of development. Unless these can be put at their disposal, many of the best men will go elsewhere, not elsewhere in this country but to America and to one or two places in the Commonwealth. Nor can the national needs be met solely by providing new institutions which will give an elementary university education, while denying adequate resources to University College and other centres which can be looked to for advances in learning and research.

The income of the College in 1959–60 was £1,801,048 and exceeded that of the previous year, £1,605,091, by £195,957. This increase was

due mainly to the following additional grants received from the Court of the University: £40,000, the normal annual increase of the block grant, during the present quinquennium; £80,000, the supplementary grant referred to in the 1958–59 report associated with the increase in student numbers; £73,639, the cost of revision from 1 January 1960, of academic salaries; £5,500, a supplementary grant for the maintenance of new buildings.

These additions to current resources enabled expenditure to be raised from £1,600,698 in 1958–59 to £1,797,866, an increase of £197,168: of this some £143,125 was devoted to academic development (including revision of salaries and of technicians' wages); £38,217 was required for additional upkeep of buildings, £10,900 for costs of administration, and £4,000 for student facilities and amenities.

Research activities sponsored by grants by public bodies continued to increase. The expenditure in the year, not included in the figures already quoted, was £192,800, an increase of £22,000 over the preceding year and the number of research projects sustained by these grants rose from 140 to 170 at the close of the year.

Progress has been made with the building projects for which capital grants have been obtained. Stages III and IV of the Biological Sciences Block on the Gower Street frontage are nearing completion and parts of the building are already occupied by sections of the Departments of Biochemistry, Biophysics, and Botany. Further south on Gower Street work is in hand on the excavations for the basements and foundations of Stage V of the Biological Sciences Block and Stage III of the Engineering Building. Stages I and II of the new Engineering Building on the Torrington Place frontage are well advanced and it is hoped that the first floors of the building will be handed over for occupation in April 1961, and that the remainder of Stages I and II will be completed by July 1961.

Good progress has been made with the new Students' Refectory and kitchens under the General Library and in the basement of the Main Building. The accommodation will be ready for occupation at the beginning of 1961.

Other minor projects are at various stages of development, among them an extension to the Observatory at Mill Hill. This new building will be used for spectrographic work. After many years of negotiation the purchase of 24 and 26 Maple Street and 26 to 30 Fitzroy Street has been completed. These sites, together with adjoining ones purchased previously, provide sufficient land to enable a hall of residence to be built when capital grants are available.

Statistics of the student population are set out in Appendices VII and VIII. The total registrations, undergraduate and postgraduate, passed the total of 3,800 for the first time, rising by 88 over the previous year's total. The number of students undertaking full-time studies again increased and reached the total of 3,000. During the session there was a notable rise of 10 per cent in the number of postgraduate students, the total reaching 925. The increase in this research activity is shown by comparison with the total five years ago, namely 734 in the session 1955–56. This represents an increase in postgraduate students of 26 per cent in that period.

A list of publications by members of the College Departments will be found on pages 26–65 showing the range of work which has been completed in the session. No attempt is made here to summarise the many research projects on which the Departments are now actively engaged, but a few new developments have been selected here by way of illustration.

In the Faculty of Arts this was a year of preparation and planning for developments of considerable interest, which will have to be recorded in the Report for the session 1960–61 when they will come into operation. In the session under review Professor Sven M. Kristensen was appointed the first Visiting Professor of Scandinavian in the Department of Scandinavian Studies under a scheme financed jointly by the College and the three Scandinavian countries. It is intended that a Visiting Professor should be invited to the College for one term in each session. In the Department of Political Economy a seminar for the discussion of topics of contemporary interest has been established for members of staff and postgraduate students. It is to become a permanent feature of the Department's activities. The Institute of Jewish Studies, now the only one of its kind in Europe, has been transferred from Manchester to University College where it functions from the Department of Hebrew. J. G. Weiss, the Institute's Director of Research, is also editor of the *Journal of Jewish Studies*.

Several departments in the Faculty of Science have made very extensive use of the 'Mercury' electronic computer of the University's Computer Unit, the College being undoubtedly the most demanding of the Unit's users. At the instigation of the Nature Conservancy, and with the aid of a special earmarked grant from the University Grants Committee, Conservation Studies have been established at University College and a College Diploma in Conservation has been instituted. In August 1960 six students, selected from forty applicants, started on the first postgraduate course on Nature Conservation, given by

the Department of Botany with help from the Departments of Zoology and Geography. One feature of the work of the Chemistry Department has been the very wide and extensive use made of the Nuclear Magnetic Resonance apparatus, recently made available to the College by the Wellcome Trustees. This apparatus is particularly useful in that it enables chemists to locate the positions of hydrogen atoms within molecules. The Department of Eugenics, Biometry and Genetics has been able to verify the inference made in 1939 to explain the familial incidence of certain malformations, that some quite normal people must carry deranged chromosomes: this is likely to be of considerable medical importance. Members of the Department of Physics have operated on a world-wide scale. They have taken part in a successful international experiment to check the conservation of parity in strong interaction processes using the CERN synchrocyclotron at Geneva. They have studied the upper atmosphere and the X-radiation reaching it from the Sun by using rockets fired from French Africa, Canada and Australia. They have made apparatus to be launched into orbit by the U.S.A. in 'Scout' satellites; indeed three-quarters of the instrumentation to be used in this programme is being developed in the Department. A number of investigations have been taken up by the Psychology Department, including an investigation of railway accidents undertaken by the Department as a result of a request from the British Transport Commission to the Medical Research Council.

The College has benefited by five grants from the United States National Institutes of Health. The two biggest of these grants have made possible a large increase in the number of research workers in the Department of Pharmacology, where research in psychopharmacology on man and animals is being undertaken jointly with the Department of Psychology, and research on the action of drugs on mental illness jointly with the Department of Psychiatry of the Institute of Psychiatry.

In the Faculty of Engineering active research has continued in all of the departments, together with some preliminary consideration of revised undergraduate courses. Throughout the session the departments have also been occupied with the choice and design of laboratory equipment to be installed in the first part of the new Engineering Building, and with the critical appraisal of teaching method that this has entailed. A significant development was the admission of the first postgraduate students to the Department of Chemical Engineering for the newly-instituted Diploma course in Biochemical Engineering.

One professorial appointment was resigned during the session: Professor Sir Lindor Brown, on his appointment to the Waynflete Chair of Physiology in the University of Oxford, resigned the Jodrell Chair of Physiology which he had held since 1949. Under his direction the Department had expanded actively both in research and in its teaching commitments. In spite of the fact that since 1955 he has been Biological Secretary of the Royal Society and its Vice-President since 1957, and has brought honour to the College by his activities in a wider sphere, Sir Lindor found time to take an active and important part in the affairs of the College outside his own Department.

There were two retirements from professorial posts during the session. Professor E. S. Pearson joined his father, Professor Karl Pearson, in the Statistics Department in 1921 and between them they developed an outstanding school of Statistics. On his retirement in 1960, Professor Pearson had been Head of the Department for twenty-seven years and had established a reputation as one of the founders of mathematical statistics. Happily, Professor Pearson has been able to accept hospitality offered by the Mathematics Department in order that in his retirement he may devote himself to his own research and to editorial work connected with *Biometrika*, the journal he has made into one of the world's foremost statistical periodicals.

Professor H. O. Corfiato first came to the Bartlett School of Architecture in 1924. He became Professor of Architectural Design in 1937 and had held the Chair of Architecture since 1946. His retirement removes from active College life a man of wide knowledge both as an architect and in many spheres outside that profession. His contribution to University College has been twofold. As Professor of Architecture he has well maintained the tradition of the Bartlett School, and many successful practising architects today received their training under his direction and have paid tribute to the encouragement he gave them. As Architect to the College, he has made valuable additions to its buildings. In Gower Street, he designed the top storey to the Anatomy building, and the Biological Sciences building on the Gower Street frontage. Enough of this building has been completed to show the dignified facade which will eventually emerge. He is consulting Architect for the new building which will stretch from the south of the Biological Sciences building to Torrington Place. In Torrington Place the new Engineering Building designed by him is nearing completion. In addition, Professor Corfiato has carried out several important conversion

schemes, notably Bentham Hall, Campbell Hall, Flaxman House for the Town Planning Department, and 25 Gordon Street for the Union, the Mathematics Department, and two Physics lecture theatres.

The University of London has conferred the title of Professor Emeritus on both Professor Pearson and Professor Corfiato.

There were also two other retirements from senior posts by members of the staff who had served the College for very long periods. H. T. Jessop entered the College as a student in 1905, and his first appointment in 1919 was as research assistant to Professor Filon who, at that time, was working in the Department of Applied Mathematics on the new photoelastic methods of stress analysis. This was Mr Jessop's introduction to the subject which was subsequently to become his main interest. After the interruption of the 1939–45 war, he was charged with setting up again the Photoelastic Laboratory, now in the Civil Engineering Department. The title of Reader in Photoelasticity was conferred on him in 1945 and, though he retired from the Readership in 1954, he continued to direct the Laboratory until the end of the session 1958–59, and since then has been a Special Lecturer in the Department. He was actively associated with the Officers' Training Corps and served as Commanding Officer of the University of London contingent for a number of years before the second world war.

Mention must also be made of the retirement during the year of O. V. Lawley, the College Superintendent of Records, whose own outstanding record is of no less than forty-six years in the College administration. On his departure the College retains the excellent and extensive filing system which has been developed in recent years under his supervision, but loses the vast and invaluable store of memories of men and matters connected with the College which Mr Lawley has accumulated over almost half a century.

Among those taking up appointments on the academic staff in the session 1959–60 were Dr L. D. Ettlinger of the Warburg Institute, who became Durning-Lawrence Professor of the History of Art in October 1959, and Professor S. N. Hampshire, who came from All Souls College, Oxford, to the Grote Chair of the Philosophy of Mind and Logic in January 1960.

The Friends of University College continued their support during the session with a number of gifts. The most important project undertaken by them during the session was the furnishing and equipping of a small dining room in the new Refectory, for which a gift of £800 was made to the College. This dining room will be

available for special luncheon and dinner parties given by the College staff or students. Another grant of £300 has been given towards the cost of laying a maple strip dance floor on part of the upper floor in the new Refectory.

Smaller projects include the provision of a stage lighting control panel and an apron stage, and also funds to cover the cost of an extension to the present stage in the Gymnasium for productions of the Dramatic and Music Societies; a trolley for use in connection with the Union Boat Club's launch; amplifier apparatus and loud-speakers for use at the Shenley tea room; pictures for the Non-Academic Staff Common Room; pictures and a record player for the Technicians' Senior Common Room and pictures and a radio-gram for the Administrative and Library Staff Common Room. Further, the Friends have given an additional contribution to the College fund for a portrait of the Provost; and another grant for the purchase of works of art for the College by students of the Slade School, as well as financial assistance towards the cost of the Receptions held for former students.

During the year 1959–60, contributions have been received from various members of the Association of Friends of the College, including funds for a brass-cased ship's clock for the Upper Refectory from Professor H. E. Watson; a gift of £10 from Mrs Helen Gregory-Lawford, £20 from Miss Enid Bradford, and £100 from an anony-mous donor. Mr W. D. Reynolds has given to the College through the Friends a glazed engraving by Wallace Hester of the Portico of the College as it was in the early part of the century.

Among special events held during the session may be mentioned the fourth Reception arranged for former students of the College which was held, at the invitation of the Provost and the President of the Association of Friends of the College, on 19 February 1960. About 200 who were at the College during the period 1946–50 were present, and showed much interest in the improved accommo-dation, both of academic departments and of the Students' Union, since the immediate post-war years when they had worked under the very difficult conditions imposed by the extensive war damage suffered by the College.

The Provost held a Reception for Fellows and Honorary Fellows of the College on 28 April 1960, in order to give them the opportunity to meet senior members of the College staff and to keep in touch with the work of the College.

A formal presentation to the College of Professor Sir William Coldstream's portrait of the Provost was made on 31 May 1960 in

the presence of a large company of subscribers. Lord Cohen, Chairman of the College Committee, received it on behalf of the College.

The 1960 Assembly of Faculties was held in the Beveridge Hall of the Senate House on 30 June. The Special Visitor was Sir Charles Snow who, having recently had special opportunities of studying the system of university education in Russia, contrasted it with that of this and other countries in the very interesting address he gave to the Assembly.

COHEN, *Chairman*
IFOR EVANS, *Provost*

SUPPLEMENT

OBITUARY

We record with deep regret the death on 20 February 1960 of Sir David Pye, Provost from 1943 to 1951 and an Honorary Fellow of the College. A memorial service was held at St Pancras Church on 18 March, at which the address was given by Lord Adrian, Master of Trinity College, Cambridge. Many past and present members of the College attended the service to pay tribute to the memory of the Provost whose lot it was to guide the affairs of the College during what were probably the most difficult and critical years of its history. When he took office in January 1943, the main building of the College had been reduced by enemy action to gutted ruins and its departments were dispersed in six centres in different parts of the country. During the next eighteen months the new Provost travelled constantly, visiting colleagues and students and planning for the resumption of work in London. When that became possible he was faced with major problems of reorganisation, reconstruction and expansion to meet the needs of an overwhelming number of students returning from National Service. Difficulties were gradually and successfully overcome, largely by his own reasonableness and a capacity for inducing the same spirit in others. Eminent himself in engineering and science, his task was aided by his manifest appreciation of other studies, while co-operation was ensured by his evident desire to associate his colleagues with all decisions. During these years there was a large turnover of academic posts. His success in guiding the new appointments is shown not only by the present vigour of learning and research in the College but by the number of its postgraduate students from all parts of the world. The wisdom

of his leadership during the eight years he held office as Provost is shown by all that has happened since.

Two other Honorary Fellows of the College died during the year: Lord Kennet of the Dene and Sir Henry Tizard, who was for some years a Trustee of the Ramsay Memorial Fellowships Trust and at one time Chairman of the Trustees.

The College lost seven of its Fellows. A. Digby Besant, who entered the College as an undergraduate in 1887, had maintained a close and continuous association with the College for more than seventy years. From 1918 to 1951 he was a member of the College Committee; he held the offices of Treasurer and Joint Treasurer from 1929 to 1948, and from 1940 to 1948 he was a member of the Senate of the University as a representative of the College. In his own distinguished career he had been from 1924 to 1926 President of the Institute of Actuaries and a Member of the Royal Commission on National Health Insurance, and from 1934 to 1939 a Member of the Unemployment Insurance Statutory Committee. He was a Director of several Insurance and other Companies. After his retirement in 1951 he maintained an active interest in the College as a member of the Association of Friends of the College and as a Council member of the Association from 1954 until his death. He did much to better the amenities of the College, particularly those for students for whom he had a special concern.

The death of Dr Paul Haas ends a long association with the College, as he was educated at University College School when it was in Gower Street, subsequently reading for a degree in Chemistry at the College during the closing years of the nineteenth century. It was not until the end of the first world war that he returned to Gower Street as a member of the staff of the Botany Department. In 1921 he became Reader in Plant Chemistry and remained in the Department until 1942. He will be remembered with respect and affection by colleagues and students alike.

Emeritus Professor Charles Singer entered University College in 1893, but abandoned a promising medical career to devote himself to the history of medicine. He returned to the College as a lecturer in that subject in 1920 and was Professor of the History of Medicine from 1931 to 1942. He played a formative part in establishing the study of the History and Philosophy of Science in the University.

The other Fellows whose death occurred during 1959–60 were: Mrs Agnes Arber, botanist and philosopher; Professor W. E. Garner, who was Reader in Physical Chemistry at the College from 1923 to 1927 and later Leverhulme Professor of Physical Chemistry in the

University of Bristol; Dr Kenneth Mees, formerly Vice-President and Director in Charge of Research, Eastman Kodak Company, Rochester, New York; and Sir Stanley Spencer, painter.

For nearly fifty years Miss Winifred Husbands had an almost unbroken connection with the College, first as a student in the English Department and as a member of its staff from 1923 to 1957. During this period of thirty-five years the English Department was increasingly dependent upon her practical gifts of organisation, her human sympathies and her undeviating fidelity to the highest standards of scholarly accuracy. She was content in an unselfish way to serve the cause of scholarship, whether in the teaching of English language or helping to edit the *Modern English Review*. Loyalty was perhaps her outstanding characteristic: loyalty to tradition, to her masters W. P. Ker and R. W. Chambers, the College and her friends.

The College had the misfortune to lose during the early part of 1960 three present members of the academic staff, each of whom had given long and valued service. Sydney Hyde had been a familiar figure in the Bartlett School of Architecture for many years. He came to it as a student in 1919 and had been a member of the staff since 1925. He was mainly in charge of the second year of the Architecture course and directed the study of English domestic architecture. He also taught the design of English interiors to students of the Division of Decoration. D. A. Sholl, Reader in Anatomy since 1955, had been a member of the staff of the Department of Anatomy and Embryology since 1947 and a student during the years immediately preceding and following the second world war.

Among former students of the College who died during the year were A. Clive Gardiner, artist and former Principal of Goldsmiths' College School of Art, who studied in the Slade School from 1909 to 1912; and Dr J. E. A. Underwood, at one time Principal Medical Officer of the Ministry of Education, who was President of the Union Society during 1912–13 while pursuing his pre-clinical studies at the College. The death also occurred of Sir Henry Letheby Tidy, who was a postgraduate student in Medical Sciences from 1906 to 1908, and of his wife, Lady Tidy, the only daughter of Sir William Ramsay. Both Sir Henry and Lady Tidy had always taken a lively interest in the affairs of the Ramsay Memorial Fellowships Trust.

The 1960 New Year Honours included the conferment of a Barony on Sir Alfred Bossom, Honorary Fellow of the College, and a Knighthood on Professor H. S. W. Massey, Quain Professor of Physics; the C.M.G. on T. A. L. Paton, Fellow of the College and a member of the College Committee and Managing Committee, and on two former students of the College, T. Harvatt, Secretary of the Council of Legal Education and Deputy Director of the Inns of Court School of Law, and Sir James Holmes Henry, Bt., Attorney-General, Cyprus. The order of C.B.E. was conferred on two others who were at one time students of the College: Dr L. A. Celestin, for public services in Mauritius and E. G. S. Elliot, lately Chief Technical Planner in the Ministry of Housing and Local Government. In January 1960, Mr Justice Vincent Lloyd-Jones, a former student of the English Department, was created a Knight Bachelor on his appointment as a Judge of the High Court of Justice.

The Queen's Birthday Honours List also contained honours for a number of former students of the College. The order of K.C.B. was conferred on F. C. Francis, Director and Principal Librarian of the British Museum; the K.C.M.G. on A. W. Snelling, High Commissioner for the United Kingdom in Ghana; Knighthoods on His Excellency Mr E. O. Asafu-Adjaye (Fellow of the College), High Commissioner for Ghana in the United Kingdom, and B. W. Rycroft, Consulting Ophthalmic Surgeon. The C.M.G. was conferred on E. E. I. Clarke, Attorney-General, Trinidad; Dr K. H. Huggins, Counsellor (Commercial), H.M. Embassy, Washington; H. E. I. Phillips, Financial Secretary, Nyasaland; the Hon. Mr Justice W. D. Van Lare, Justice of Appeal, Supreme Court, Ghana; and L. G. Coke Wallis, Chairman of Public Service Commission, Ibadan, Western Region, Nigeria. The order of C.B.E. was awarded to R. M. A. Berenger, Director of Public Works and Surveys, Mauritius; G. H. Brinkworth, Assistant Solicitor, Ministry of Pensions and National Insurance; Miss Winifred M. Goode, Assistant Secretary, Home Office; and Ernest Thesiger (Fellow of the College), Actor and Artist; also on Ceri Richards, a member of the staff of the Slade School of Fine Art.

Of the many important appointments and elections obtained by past and present members of the College, mention can be made of only a few.

Among Government appointments obtained by former students, were those of Sir John Walker as British Ambassador in Oslo, of

Theophilus Benson as Minister of Information of the Nigerian Federal Cabinet and of Dr S. Ramgoolam as Minister of Finance in the Government of Mauritius. The Minister of Defence appointed Sir Solly Zuckerman (Fellow of the College) as his scientific adviser and as chairman of the Defence Research Policy Committee. Dr F. A. Vick was appointed Director of the United Kingdom Atomic Energy Authority. Legal appointments included those of V. P. M. J. O'C. Stranders to the rank of Queen's Counsel, Mr Justice Louis Mbanefo as Chief Justice of Eastern Nigeria, and M. J. J. L. Rivalland as a Puisne Judge in Mauritius.

Professor E. H. J. Gombrich and Professor S. N. Hampshire were elected to Fellowships of the British Academy; Sir Stewart Duke-Elder, Dr H. E. Huxley, and Dr K. F. Roth to Fellowships of the Royal Society. Professor Sir Lindor Brown was re-elected Biological Secretary of the Royal Society; and he, Professor Dame Kathleen Lonsdale, Professor Sir Harrie Massey, and Professor J. Z. Young were elected members of its Council. Dame Harriette Chick became an Honorary Fellow of the Royal Society of Medicine, and Professor W. J. Duncan an Honorary Fellow of the Royal Aeronautical Society.

Professor Sir William Holford was appointed President of the Royal Institute of British Architects, and Professor S. E. Hollingworth was elected President of the Geological Society of London.

Honorary degrees were conferred on the following: Professor Sir William Holford, who was awarded the D.C.L. by the University of Durham; Professor Dame Kathleen Lonsdale on whom the University of Wales conferred the D.Sc.; and Professor Sir John Neale who was awarded the Litt.D. by the University of Cambridge and the University of Leeds.

On the recommendation of the Council of the Royal Society, a Royal Medal for the year 1959 was awarded to Professor P. B. Medawar for his contributions in the field of tissue transplantation immunity and acquired tolerance. Professor A. D. Momigliano was awarded the 1960 Feltrinelli Prize by the Italian Accademia Nazionale dei Lincei for studies in history; Professor R. E. D. Bishop the George Stephenson Prize by the Institution of Mechanical Engineers, for research on the vibration of rotating shafts; and Dr Phyllis M. Kaberry the Wellcome Medal of the Royal Anthropological Institute for Research in Applied Anthropology. Professor J. Heyrovský was awarded the Nobel Prize for Chemistry by the Academy of Science, Stockholm, for his discovery and development of the polarographic method of analysis; though now Director of the

Polarographic Institute of Prague, the foundation of Professor Heyrovský's studies was laid as the pupil of Sir William Ramsay and Professor F. G. Donnan at University College. The award of a Leverhulme Fellowship was made to Mrs M. Mary Douglas, a Rockefeller Travelling Fellowship to Dr R. W. Guillery, and a Junior Beit Fellowship to D. C. Watts.

The following were appointed to University Chairs: Professor Sir Lindor Brown to the Waynflete Chair of Physiology at the University of Oxford, Dr P. H. Calderbank as Professor of Chemical Technology in the University of Edinburgh, Dr P. B. D. de la Mare to the Chair of Chemistry at Bedford College London, Dr I. Donaich to the Chair of Morbid Anatomy at the London Hospital Medical College, Dr G. E. Fogg to the Chair of Botany at Westfield College London, Dr H. Harris to the Chair of Biochemistry at King's College London, Dr D. R. Newth to the Chair of Biology at Middlesex Hospital Medical School, Dr D. M. Ross to the Chair of Zoology in the University of Alberta, and Dr R. E. O. Williams to the Chair of Bacteriology at St Mary's Hospital Medical School. The University of London conferred the title of Professor of Ancient History on Dr H. H. Scullard in respect of his post at King's College.

Professor G. W. Keeton was elected as the representative of the Faculty of Laws on the Senate of the University of London from 1 October 1959 for the remainder of the period 1957–61. Professor J. A. B. Gray has become Dean of the University Faculty of Science and H. Tout will be Dean of the University Faculty of Economics, both for the period 1960–62.

The College Faculty changes at the beginning of the session 1959–60 were confined to the Faculty of Laws, of which Professor D. Lloyd became Dean and Professor G. W. Keeton Vice-Dean.

A number of titles was conferred by the University of London on members of the academic staff of the College. The title of Professor was conferred on M. Abercrombie (Embryology), J. Hurstfield (Modern History), and Dr E. H. S. Burhop (Physics). The following were given the title of Reader: Dr G. Aquilecchia (Italian), Dr S. P. Datta (Biochemistry), P. G. Foote (Old Scandinavian), Dr J. B. Hasted (Physics), Dr N. H. de V. Heathcote (History and Philosophy of Science), Dr D. J. Millen (Chemistry), P. J. Syrett (Botany), R. A. Wollheim (Philosophy). P. R. Bell was appointed to the established Readership in Botany and Dr V. P. Underwood to the established Readership in French.

STUDENT HEALTH ASSOCIATION

Attendances in the medical section were the highest since the service started (12,475) and accommodation problems yearly become more pressing. On the resignation of Dr N. Malleson in 1959, which was recorded in the last Report, his national health list was taken over by Dr A. Linken, and Dr C. J. Lucas was appointed as Director of the Student Health Centre. Dr Lucas is a former student of the College, having done his pre-clinical studies here during the years immediately after the second world war, and his clinical studies at University College Hospital Medical School. Mr E. K. Martin has succeeded Professor Winton as Treasurer of the Association. This year for the first time the mass X-ray examination was augmented by the introduction of facilities for the testing of susceptibility to tuberculosis, and for the immunisation of those found to be susceptible. 322 students and staff were inoculated with B.C.G.

As in the past, full use has been made of the two dental chairs. High speed dental drilling equipment has been installed in the Dental Centre.

During the winter of 1959 a Sick Visiting Service was run by the Chairman of the Student Health Association Committee, and students ill in lodgings or hospital were visited by fellow students who volunteered to assist in this practical and much appreciated way.

An investigation of factors affecting the mental health of students has been started in collaboration with the Psychology Department. The Medical Research Council has provided funds for the project and Miss P. McGivern has been appointed Research Assistant for the investigation.

OLD STUDENTS' ASSOCIATION

At the Annual General Meeting Dr Constance M. Rigby was elected President of the Association for the session 1959–60 and Dr H. K. Cameron was nominated for re-appointment to the College Committee.

In the social programme the most popular function of the year was the visit to the Summer Exhibition of the Royal Academy. The other function held outside College was an evening river trip down the Thames estuary.

The Annual Dinner-Dance and four informal dinners were held in College. Interesting addresses were given by after-dinner speakers, and the final informal dinner of the session was followed by a recital of Elizabethan and modern part songs by members of the College Madrigal Society.

The Provost kindly invited fifty members of the Association to the Foundation Concert.

The College once again paid one annual subscription on behalf of every student completing a first degree or diploma course. The scheme has been in operation long enough to provide evidence that it is achieving its purpose of increasing the regular membership of the Association, though the percentage still remains very small.

The Association suffered a sad loss in the death of Miss Winifred Husbands, one of its Vice-Presidents and for many years a constant supporter of its activities.

THE STUDENTS' UNION

This has been a crowded year—crowded with incident and achievement, and a year in which the students have continued to crowd into the Union. Certainly, the furnishings and paintwork begin to show the signs of eighteen months' hard service, but if the dirt increases then so does the character of the building. The social side to College life has been greatly enhanced by the existence of a pleasant and informal meeting place. Saturday Night Socials continue to thrive and the Monday Jazz Hop is an established feature of the student's week. Our Jazz Band obviously benefits from the practice, for this year it won the Inter-University Jazz Competition. The Dramatic Society once again reached the final of the N.U.S. Drama Festival with a highly controversial production of *Hamlet*, while the Film Society has finally reached maturity and distinguished itself by winning awards at the Glasgow Amateur Film Festival. The Music Society set the seal upon a most successful year for our associated societies by staging an extremely fine amateur production of Berlioz's seldom performed opera *Beatrice and Benedict*. Only the Debating Society failed to achieve anything of note, save for a fierce argument with Council as to how it should spend its money. Debating standards still leave much room for improvement, but this is largely due to the cloistered surroundings in which the debates are held. Feverish activity on the part of most of our affiliated societies augurs well for the future, and it is our wish to encourage them by means of a special projects fund in addition to the small Union subsidy to which they are automatically entitled.

Sporting prowess at University College was illustrated by the exceptionally strong teams that represented us at soccer, cricket,

badminton, shooting, tennis, cross-country running, rowing, and sailing. Amongst those new to the Central Athletics Board are the Horse Riding Club and the Tiddleywinks Club, and this in turn reflects upon the varied facilities which we are able to offer our students. Shenley was again used for the Going-Down Ball and witnessed the first edition of the Summer Games against King's College. Departmental and inter-departmental games also took place at Shenley and at last the full potentialities of this attractive sports ground are being recognised by the students.

During the course of the year various events held a temporary prominence in the student world. A new agreement was signed between the College and the Union with reference to political activities, and in all our dealings with them we have found the College authorities both sympathetic and co-operative. In February, University College received a visit from the University Grants Committee, and a memorandum was presented to it from the Union which also picked a delegation to meet the Committee, and discussed, in particular, the shortage of Union accommodation, the need for more halls of residence and the problem of staff–student contacts. A partial answer to the pressing residential need was suggested by the Union in the form of rooming houses, and it is pleasing to note that this scheme has received the support of the College Accommodation Committee. Throughout the year student opinion ran high on the subject of Apartheid and on other major political issues, until eventually a General Meeting overwhelmingly voted for the affiliation of a society to campaign against racial segregation.

Perhaps the most important change in the Union this year was the introduction of a two-tier method of government, whereby a Council of thirteen members reported directly to a General Meeting. Whilst it is probably too soon to make any judgement, it nevertheless appears as if the regular General Meeting has become an accepted institution. The new system has two important advantages: firstly, it allows the student body to take a more active part in the ordinary running of the Union and thus increases interest shown in Union affairs; and, secondly, the executive branch has more time to concern itself with the many and pressing problems affecting a student community. We are very ambitious for the future of the Union as we sit in our fourth-floor offices, and, after all, why not ?

D. TAYLOR
President, 1960–61

THE BARTLETT SCHOOL OF ARCHITECTURE

There were 152 students in the School; 50 students were taking the Degree course, 66 the Diploma course, 31 the Certificate course in Decoration, 1 taking a fourth (optional) year in Decoration, and 4 postgraduate students; of this number, 27 were from overseas and came from Belgium, Cyprus, Greece, Holland, Hong Kong, Indonesia, Iran, Israel, Malaya, Nigeria, Poland, Singapore, South Africa, Thailand, and Uganda.

The Bartlett School again took part in the annual competition between French and British Schools on a common design subject. A fourth year student, G. Thorpe, was the winner of the competition, and G. John and R. J. Faircliff were awarded the second and third prizes respectively. L. M. Hellman, a fourth year Degree student, has been granted a French Government Scholarship to enable him to study for a year at L'Ecole Nationale et Supérieure des Beaux-Arts in Paris.

Several outside architects gave lectures to the students on subjects not covered by the curriculum, and the experiment—carried out for the first time this session—of asking distinguished architects to visit the School and advise students on subjects set by the School, proved very interesting and valuable. Among the lectures given was one on 'American Church Architecture' by Dr Arland A. Dirlam, Past President of the Church Architectural Guild of America and a practising architect, who has himself designed many distinguished churches, and V. H. Wentworth gave a lecture on 'Plastics in Building'. In the 'Design of Contemporary Buildings' series, lectures were given by J. K. G. Sargeant, T. F. A. Manning, R. H. Uren. Also in this series, students visited State House, Holborn, for a lecture on the site by P. R. Preston.

The Division of Decoration was working for the first time under the guidance of H. C. Berry. The normal curriculum of the Division was modified to give greater emphasis than in previous years to original designs of interiors and furniture, some designs being taken to full working stage. Mr Berry gave a short series of additional lectures on 'Basic Design Principles' to first year students, which were supplemented by a number of Basic Design programmes. Furniture construction methods were studied in the first year for the first time. The normal Building Construction lecture programme was

supplemented with talks and studio supervision of working drawings given by C. F. Timothy, a visiting lecturer. Mr W. Mitchell gave a special lecture on 'Mural Decoration'. Visits were arranged to various museums and period buildings, where studies of interior detail, furnishings and furniture were made. Valuable visits were also organised to a number of factories, including a furniture factory and an industrial glass factory.

The staff, as usual, have engaged successfully in private practice, thus enhancing their value as teachers of an art where practical experience is a great adjunct to theory.

The School again wishes to record its appreciation of the valuable assistance given by the Slade School of Fine Art, the Department of Civil Engineering and Surveying, and the Departments of Mathematics and Archaeology.

THE SLADE SCHOOL OF FINE ART

There were 190 full-time students (108 men and 82 women) attending the School during the session. Of these, 161 were following the course leading to the Diploma in Fine Art, six were post-Diploma students, and the rest were following courses in the School for one year only.

There was one British Council scholar who came from Pakistan and one Fulbright scholar. Oversea students came from Australia, Canada, Chile, China, Germany, Hungary, India, Israel, Malaya, Pakistan, Singapore, South Africa, Sudan, Sweden and the United States of America.

At the annual entrance examination held in January, 398 candidates applied for places in October 1960, and 67 were accepted.

The following artists, apart from those on the regular staff, have taught periodically in the School during the session: Rodney Burn, Josef Herman, Victor Pasmore, John Piper, William Scott. During the third term of the session, Ceri Richards was granted leave of absence, and in his place Frank Auerbach taught in the School during the summer.

In the first two terms Professor L. D. Ettlinger gave a series of lectures on 'European Painting since 1800'. In the summer, the following lectures were given in a course on the theme of art and psychology: 'Communication and Expression' and 'On Reading Pictures' by Professor E. H. Gombrich; 'The Impact of Architecture' by Adrian Stokes; 'Scandal' by Professor G. Lehmann; 'Expression and Imitation' by Professor S. N. Hampshire; 'Freedom and Discipline in Modern Art' by Dr Anton Ehrenzweig; and 'Abstraction and Expression' by Professor L. D. Ettlinger. On Tuesdays during the Summer Term, the lectures were related to outstanding current exhibitions: 'Sickert' by Gabriel White; 'Poussin, Rationalist Painting' and 'Picasso's Guernica' by Sir Anthony Blunt; 'Picasso' by Roland Penrose; and 'Art and Art Nouveau' by Professor N. Pevsner. Further lectures were given, in the autumn by Miss Hilde Goldschmidt on Kokoschka, and in the summer by David Sylvester on Giacometti.

In Stage Design, eight students followed the one-year course and six took Stage Design as a subsidiary subject in the Diploma course. During the year James Laver gave a course of lectures on the 'History of Theatrical Costume', and Minos Volonakis and Peter

Williams visited the class and set exercises on Designing. Present students of the School have designed and helped to execute settings for the following productions: Nicholas Ferguson for *Offshore Island*, Unity Theatre, and *Under the Influence*, British Drama League; Richard Napper for *Jacques for Obedience*, O.U.D.S.; Ralph Adron for *The Wise Monkeys*, Sadlers Wells; John Stokes for *The Man who had all the Luck*, Tower Theatre, Canonbury.

Among those students who gained awards during the session were: Tessie L. Jaray, Abbey Minor Scholarship; Tessie L. Jaray and A. E. S. Green, French Government Scholarships; Christopher Twyford, Italian Government Scholarship and Postgraduate Studentship; Robin Crozier, Gulbenkian Scholarship in Sculpture; Marcus Vaux, Boise Travelling Scholarship.

Through the good offices of the British Film Institute, generous grants have been made to University College by the British Film Producers Association, the J. Arthur Rank Group Charity, and the Associated British Picture Corporation to support the study of and research in the Film. It is felt that the College, with its many departments ranging through the Arts and Sciences, will provide a peculiarly favourable setting for the introduction of this study. The scheme proposed involves the appointment of a Lecturer who will be attached to the Slade School and will have facilities for showing films, lecturing, research and the supervision of postgraduate students. While no undergraduates will be registered for the subject, the scheme provides funds for the establishment of two postgraduate studentships. It is hoped to attract to these studentships graduates who wish to undertake research on some aspect of the Film. Apart from postgraduate work, it is proposed to conduct courses of lectures and seminars on the Film. Some of these courses will be given by the Lecturer himself and he will also have at his disposal funds to allow him to invite experts from outside to assist in the work. The appointment of the Lecturer will be from the beginning of the session 1960–61 when the scheme will start. It is proposed to limit the duration of the scheme to a trial period of five years, at the end of which time it will be reviewed.

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APPENDIX I

COLLEGE COMMITTEE

	*Attendances**
Chairman: The Right Hon. Lord Cohen, P.C.‡	5–7
Vice-Chairman and Treasurer: Sir Frederick James, O.B.E.‡	6–7
Professor R. E. D. Bishop, M.A., M.S., PH.D., D.SC.(ENG.), A.M.I.MECH.E., A.F.R.AE.S.	4–4
John Brown, C.B.E., M.C., M.A., B.SC., LL.D.§	0–3
Professor Sir Lindor Brown, C.B.E., M.SC., M.B., CH.B., LL.D., D. DE L'UNIV., F.R.C.P., F.R.S.	3–7
H. K. Cameron, B.SC., PH.D.	6–7
Mrs Irene Chaplin, B.A., J.P.	5–7
The Right Hon. The Earl of Cromer	0–7
P. Dunsheath, C.B.E., M.A., D.SC.(ENG.), D.ENG., LL.D., M.I.E.E.	6–7
Sir Ifor Evans, D.LIT.† *Provost*	7–7
W. Griffith, M.A.¶	2–4
David Heron, M.A., D.SC.†	7–7
Professor A. V. Hill, C.H., O.B.E., SC.D., LL.D., D.SC., M.D., F.R.S.‡	4–7
Professor E. D. Hughes, D.SC., PH.D., F.R.I.C., F.R.S.†	6–7
Miss L. Margaret Kerly, M.A., PH.D.¶	4–4
Professor D. Lloyd, M.A., LL.D.	7–7
A. Maccoll, M.SC., PH.D.§	3–3
L. H. Macklin, O.B.E., M.A.	5–7
E. K. Martin, M.B., M.S., F.R.C.S.†	7–7
T. A. L. Paton, C.M.G., B.SC., M.I.C.E., M.AM.SOC.C.E.†	2–7
F. J. Stephens, M.A.‡	1–7
The Right Hon. Lord Strang, G.C.B., G.C.M.G., M.B.E., B.A., LL.D.†	4–7
Professor James R. Sutherland, M.A., B.LITT., LL.D., F.B.A.	6–7
Professor E. H. Thompson, O.B.E., B.A., F.R.I.C.S.§	3–3
G. F. Vaughan, M.B., M.R.C.P., D.P.M.	4–7
Alderman Sir Bernard Waley-Cohen, M.A.	6–7
G. E. Walker, O.B.E., B.A.	5–7

* The two figures indicate respectively the number of times that the member attended, and the number of times that he was summoned to a meeting of the Committee during the year 1 October 1959 to 30 September 1960. ‡ Hon. Fellow of the College. † Fellow of the College. § Membership terminated before 30 September 1960. ¶ Appointed after 1 October 1959.

APPENDIX II

PROFESSORIAL BOARD

Chairman: Sir Ifor Evans, D.LIT., Provost†

M. Abercrombie, M.A., B.SC., F.R.S., Professor of Embryology

C. W. Allen, D.SC., Perren Professor of Astronomy

G. C. Allen, C.B.E., M.COM., PH.D., Professor of Political Economy

H. C. Allen, M.C., M.A., Commonwealth Fund Professor of American History

G. F. Arnold, B.A., Lecturer in Phonetics

Ernest Baldwin, PH.D., Professor of Biochemistry

H. E. M. Barlow, B.SC.(ENG.), PH.D., M.I.E.E., M.I.MECH.E., Pender Professor of Electrical Engineering†

R. E. D. Bishop, M.A., M.S., PH.D., D.SC.(ENG.), A.M.I.MECH.E., A.F.R.AE.S., Kennedy Professor of Mechanical Engineering

F. Brailsford, B.SC.(ENG.), PH.D., M.I.E.E., Professor of Electrical Engineering

Sir Lindor Brown, C.B.E., M.SC., M.B., CH.B., LL.D., D. DE L'UNIV., F.R.C.P., F.R.S., Jodrell Professor of Physiology

A. B. C. Cobban, M.A., PH.D., Professor of French History

Sir William Coldstream, C.B.E., Slade Professor of Fine Art†

H. O. Corfiato, S.A.D.G., F.S.A., F.R.I.B.A., HON.F.I.B.D., Professor of Architecture

D. P. Craig, D.SC., Professor of Chemistry

H. C. Darby, O.B.E., M.A., PH.D., LITT.D., Professor of Geography

Florence N. David, D.SC., Reader in Probability and Statistics

W. R. Dean, M.A., Goldsmid Professor of Mathematics

M. B. Donald, M.SC., F.R.I.C., M.I.CHEM.E., A.R.C.S., Ramsay Memorial Professor of Chemical Engineering

G. C. Drew, M.A., Professor of Psychology

W. B. Emery, M.B.E., M.A., D.LIT., F.B.A., F.S.A., Edwards Professor of Egyptology

L. D. Ettlinger, PH.D., Durning-Lawrence Professor of the History of Art

Daryll Forde, PH.D., Professor of Anthropology†

L. W. Forster, M.A., DR.PHIL., Professor of German

D. B. Fry, PH.D., Professor of Experimental Phonetics

A. H. Gerrard, Professor of Sculpture

R. E. Gibbs, D.SC., F.INST.P., Reader in Physics and Tutor to Science Students

J. A. B. Gray, M.A., M.B., B.CHIR., Professor of Physiology

H. Grüneberg, PH.D., M.D., D.SC., F.R.S., Professor of Genetics

S. N. Hampshire, M.A., F.B.A., Grote Professor of Philosophy of Mind and Logic

Sir William Holford, M.A., D.C.L., F.R.I.B.A., M.T.P.I., F.I.L.A., Professor of Town Planning

S. E. Hollingworth, M.A., D.SC., Yates-Goldsmid Professor of Geology

E. D. Hughes, D.SC., PH.D., F.R.I.C., F.R.S., Professor of Chemistry†

† Fellow of the College.

R. A. Humphreys, O.B.E., M.A., PH.D., Professor of Latin American History

J. Hurstfield, B.A., Professor of Modern History

Sir Christopher Ingold, D.SC., F.R.S., Professor of Chemistry

Raymond Irwin, M.A., F.L.A., Professor of Library Studies and Director of the School of Librarianship & Archives

B. Katz, M.D., PH.D., D.SC., F.R.S., Professor of Biophysics

G. W. Keeton, M.A., LL.D., Professor of English Law

L. Margaret Kerly, M.A., PH.D., Reader in Biochemistry

D. Lewis, D.SC., F.R.S., Quain Professor of Botany

D. Lloyd, M.A., LL.D., Quain Professor of Jurisprudence

Dame Kathleen Lonsdale, D.B.E., D.SC., F.R.S., Professor of Chemistry†

A. Maccoll, M.SC., PH.D., Reader in Chemistry

D. McKie, D.SC., PH.D., F.R.I.C., F.R.S.E., Professor of History and Philosophy of Science†

R. D. McLellan, PH.D., Senior Tutor and Senior Lecturer in Greek and Latin

H. Marriott, B.ENG., B.SC.(ECON.), M.I.E.E., Senior Lecturer in Electrical Engineering and Tutor to Engineering Students

Sir Harrie Massey, D.SC., PH.D., F.R.S., Quain Professor of Physics

P. B. Medawar, C.B.E., M.A., D.SC., D. DE L'UNIV., F.R.S., Jodrell Professor of Zoology and Comparative Anatomy

A. D. Momigliano, M.A., D.LITT., F.B.A., Professor of Ancient History

R. S. Nyholm, D.SC., F.R.I.C., F.R.S., Professor of Chemistry†

E. S. Pearson, C.B.E., M.A., D.SC., Professor of Statistics†

L. S. Penrose, M.A., M.D., D.SC., M.R.C.S., L.R.C.P., F.R.S., Galton Professor of Eugenics

N. W. Pease, B.SC., Lecturer in Statistics

R. Powell, D.C.L., Professor of Roman Law

Constance M. Rigby, M.A., PH.D., Lecturer in Mathematics

C. M. Robertson, M.A., Yates Professor of Classical Art and Archaeology

C. A. Rogers, D.SC., F.R.S., Astor Professor of Mathematics

J. W. Scott, B.A., A.L.A., Librarian

O. Skutsch, DR.PHIL., Professor of Latin

A. H. Smith, O.B.E., R.N.O., R.F., PH.D., D.LIT., F.S.A., Quain Professor of English Language and Literature

S. Stein, PH.D., Reader in Hebrew

James R. Sutherland, M.A., B.LITT., LL.D., F.B.A., Lord Northcliffe Professor of Modern English Literature

A. J. Taylor, M.A., Lecturer and Assistant Tutor in History

E. H. Thompson, O.B.E., B.A., F.R.I.C.S., Professor of Surveying & Photogrammetry

M. A. Thomson, M.A., D.PHIL., Astor Professor of English History

E. G. Turner, M.A., F.B.A., Professor of Papyrology

T. B. L. Webster, M.A., LITT.D., F.S.A., HON.R.A., Professor of Greek

R. Weiss, B.A., Professor of Italian

† Fellow of the College.

G. P. Wells, M.A., SC.D., F.R.S., Professor of Zoology

D. J. B. White, PH.D., Senior Lecturer in Botany

F. R. Winton, M.A., M.D., D.SC., Professor of Pharmacology

B. Woledge, M.A., D. DE L'UNIV., Fielden Professor of French Language and Literature

J. Z. Young, M.A., D.SC., F.R.S., Professor of Anatomy

APPENDIX III

HONORARY FELLOWS AND FELLOWS

The following elections were made in 1960:

HONORARY FELLOWS

Mr Sydney Barratt, Chairman of Albright and Wilson Limited and Chairman of the Ramsay Memorial Fellowships Trust.

Sir Simon Marks, Chairman and Joint Managing Director, Marks and Spencer Limited.

FELLOWS

Sir (Geoffrey) Miles Clifford, K.B.E., C.M.G., E.D., Director of the Leverhulme Trust Fund.

Professor James Frederic Danielli, F.R.S., Professor of Zoology and Head of Department, King's College, London.

Mr Gerald William Lankester Harding, C.B.E., formerly Director of the Department of Antiquities, Hashemite Kingdom of Jordan.

Professor William Norton Medlicott, Stevenson Professor of International History, University of London.

Mr Cecil Waller, Chief Emulsion Chemist, Ilford Limited.

Sir Alec Thomas Sharland Zealley, Chairman of the Remploy Corporation Limited.

APPENDIX IV

RECOGNITION OF TEACHERS

The following members of the academic staff have been granted, during the academic year 1959–60, Full Recognition as Teachers of the University in the subjects and in the University Faculties indicated:

Clarke, Patricia H.	Biochemistry	Medicine and Science
Dunn, T. M.	Chemistry	Science
Elvery, R. H.	Civil Engineering	Engineering
Foyle, A. M.	Architecture	Arts
Garstang, R. H.	Astronomy	Science
Griffith, T. C.	Physics	Science
Ives, K. J.	Civil and Municipal Engineering	Engineering
Jackson, K. L.	Mechanical Engineering	Engineering
James, D. W.	Anatomy	Medicine and Science
Kells, J. H.	Classics	Arts
Middleton, J. F. M.	Social Anthropology	Arts
Milledge, H. Judith	Chemistry	Science
Mullin, J. W.	Chemical Engineering	Engineering
Ridd, J. H.	Chemistry	Science
Rowley, B. A.	German	Arts
Shooter, E. M.	Biochemistry	Medicine and Science
Sims, G. D.	Electrical Engineering	Engineering
Spraos, J.	Economics	Economics
Turner, D. L.	English	Arts
Waters, D. W. M.	Law	Laws
Wells, G. A.	German	Arts

APPENDIX V

PRINCIPAL CHANGES IN THE ACADEMIC STAFF

FACULTY OF ARTS

ANTHROPOLOGY

Appointment: D. P. M. Morton-Williams, B.SC. (Research Assistant).

Resignation: Rosemary L. Harris, M.A. (Research Assistant).

ARCHITECTURE

Appointment: H. C. Berry, M.S.I.A., N.D.D. (Part-time Senior Lecturer), from appointment at Hammersmith College of Art and Building.

Resignations: W. A. Eden, M.A., F.S.A., F.R.I.B.A. (Part-time Lecturer).
S. L. Thomson, F.R.I.B.A., (Part-time Lecturer).

Retirements: H. O. Corfiato, S.A.D.G., F.S.A., F.R.I.B.A., Hon.F.I.B.D. (Professor of Architecture).
T. Ritchie, A.A.DIP., F.R.I.B.A., A.M.T.P.I. (Senior Lecturer).

Deaths: S. Hyde, F.R.I.B.A. (Senior Lecturer).
E. G. Richardson, B.A., D.SC., PH.D. (Honorary Lecturer in Acoustics).

ENGLISH LANGUAGE AND LITERATURE

Appointment: C. E. C. Burch, B.A. (Research Assistant), formerly student in the Department.

FINE ARTS

Appointment: L. D. Ettlinger, PH.D. (Durning-Lawrence Professor of the History of Art) also Warburg Institute and formerly University of Reading.

FRENCH

Resignations: Elena Forté, L.ÈS.L., D.E.S. (Assistant).
Claude M. E. Ménard, L.ÈS.L., D.E.S. (Assistant).

GEOGRAPHY

Resignation: R. G. Lister, B.A. (Honorary Research Associate), to University of Otago, New Zealand.

LIBRARIANSHIP AND ARCHIVES

Appointment: H. M. Nixon, B.A., F.S.A. (Part-time Lecturer), Assistant Keeper, Department of Printed Books, British Museum.

Resignation: L. C. Hector, O.B.E., M.A. (Part-time Lecturer in Palaeography).

PHILOSOPHY

Appointments: S. N. Hampshire, M.A. (Grote Professor of Philosophy of Mind and Logic), from All Souls College, Oxford.
B. A. O. Williams, M.A. (Lecturer) from New College, Oxford.

POLITICAL ECONOMY

Appointments: A. B. Cramp, B.A., PH.D. (Lecturer, from London School of Economics.

B. F. Mogridge, B.A. (Research Assistant), from appointment with *The Economist* Intelligence Unit.

Resignation: L. S. Pressnell, B.SC.(ECON.), PH.D. (Lecturer), to Readership at London School of Economics.

SCANDINAVIAN STUDIES

Appointment: Professor Sven M. Kristensen, DR. PHIL. (Visiting Professor), from Aarhus University.

TOWN PLANNING

Appointment: B. Schlaffenberg, DR.ARCH., A.M.T.P.I. (Part-time Visiting Lecturer), formerly of the University of Pennsylvania.

FACULTY OF LAWS

Appointment: I. H. Jacob, LL.B., Master of the Supreme Court of Judicature (Honorary Lecturer).

FACULTY OF SCIENCE

BOTANY

Appointment: R. O. D. Dixon, M.SC. (Research Assistant).

Resignations: G. E. Fogg, B.SC., PH.D. (Reader), to Chair of Botany at Westfield College.

D. H. Morgan, B.SC. (Research Assistant).

CHEMISTRY

Resignation: P. B. D. de la Mare, D.SC. (Reader), to Chair of Chemistry at Bedford College.

EUGENICS, BIOMETRY AND GENETICS

Appointment: J. R. Ellis, PH.D. (Lecturer).

Resignation: H. Harris, M.A., M.D., (Honorary Research Associate).

HISTORY AND PHILOSOPHY OF SCIENCE

Appointments: F. W. Gibbs, D.SC., PH.D., F.R.I.C. (Honorary Lecturer in History of Technology).

W. A. Smeaton, M.SC., PH.D., F.R.I.C. (Lecturer), from the University of Paris.

Resignation: Mary B. Hesse, M.SC., PH.D. (Lecturer), to appointment at the University of Cambridge.

MATHEMATICS

Appointment: J. D. Murray, PH.D. (Lecturer), from Harvard University.

PHYSICS

Appointments: D. K. Aitken, PH.D. (Lecturer), from the Northern Polytechnic.
P. W. Roberts, PH.D. (Lecturer and Adviser on Protection against Radiation Hazards), from St Mary's Hospital Medical School.
A. P. Willmore, PH.D. (Lecturer), from Atomic Energy Research Establishment, Harwell.

PSYCHOLOGY

Appointment: G. A. Foulds, M.A., PH.D. (Part-time Lecturer).

STATISTICS

Resignation: C. L. Mallows, PH.D. (Lecturer), to Bell Telephone Laboratories and Columbia University, New York.

Retirement: E. S. Pearson, C.B.E., M.A., D.SC. (Professor of Statistics).

FACULTY OF ENGINEERING

CIVIL AND MUNICIPAL ENGINEERING

Appointment: J. Gregory, B.SC. (Research Assistant), formerly student in Department of Chemistry.

Resignation: C. P. Andren, M.SC.(ENG.), A.M.I.C.E. (Lecturer), to private practice.

Retirement: P. L. Capper, T.D., M.SC.(ENG.), M.I.STRUCT.E., A.M.I.C.E. (Senior Lecturer), re-appointed Special Lecturer (Part-time).

MECHANICAL ENGINEERING

Appointment: T. R. Shepherd (Assistant).
H. K. Weiss, M.E., DIPL.ING., A.M.I.E.AUST. (Honorary Research Associate), of University of New South Wales.

ELECTRICAL ENGINEERING

Appointment: B. R. Wilkins, B.SC.(ENG.) (Research Assistant), formerly student in the Department.

CHEMICAL ENGINEERING

Appointment: Professor A. N. Hixson, PH.D. (Honorary Research Associate), of the University of Pennsylvania.

FACULTY OF MEDICAL SCIENCES

ANATOMY AND EMBRYOLOGY

Appointments: W. K. Taylor, M.SC., PH.D., A.M.I.E.E. (Honorary Research Associate).
C. A. C. Charlton, M.B., B.S. (Assistant Lecturer), formerly House Surgeon to E.N.T. Department, St Bartholomew's Hospital.
H. J. L. Francis, B.SC., M.B., B.S. (Assistant Lecturer) formerly House Surgeon to Surgical Unit, University College Hospital.

Resignations: Professor A. K. McIntyre, B.SC., M.B., B.S. (Honorary Research Associate).
J. F. Newcombe, M.A., F.R.C.S. (Assistant Lecturer).

BIOCHEMISTRY

Appointments: K. R. Rees, M.SC., PH.D. (Honorary Lecturer), formerly held full-time appointment in the Department.

Pauline M. Meadow, M.A., PH.D. (Assistant Lecturer), formerly held honorary appointment in the Department.

BIOPHYSICS

Appointment: R. Miledi, M.D. (Lecturer), from Instituto N. De Cardiologia, Mexico.

PHARMACOLOGY

Appointments: K. A. P. Edman, M.D. (Honorary Research Associate), of the University of Uppsala.

J. H. Gaddum, M.A., SC.D., F.R.S. (Honorary Lecturer).

PHYSIOLOGY

Appointment: Margaret L. R. Harkness, B.SC. (Lecturer), formerly held honorary appointment in the Department.

Resignation: Sir Lindor Brown, C.B.E., M.SC., M.B., CH.B., LL.D., D. DE L'UNIV., F.R.C.P., F.R.S. (Jodrell Professor of Physiology), to appointment as Waynflete Professor of Physiology in the University of Oxford.

APPENDIX VI

PUBLIC LECTURES

ENDOWED LECTURES

COMMONWEALTH FUND LECTURES

Professor Kenneth M. Stampp, California, Berkeley: 'The Era of Reconstruction, 1865–1877' (eight lectures)

HOBHOUSE MEMORIAL LECTURE

Professor Sir Aubrey Lewis, Institute of Psychiatry: 'Agents of Cultural Advance'

SHEARMAN MEMORIAL LECTURES

Professor Alonzo Church, Princeton: 'Logic and Meaning' (four lectures)

INAUGURAL LECTURES

Professor J. A. B. Gray, Professor of Physiology: 'The Place of Physiology in University Education'

Professor Joel Hurstfield, Professor of Modern History: 'Liberty and Authority under Elizabeth I'

LUNCH-HOUR LECTURES

Dr A. J. Arkell: 'An Archaeologist visits the Belgian Congo'
Mr A. H. Basson: 'The Philosopher's Quest'
Mr P. R. Bell: 'The Origin of Indian Corn'
Professor R. E. D. Bishop: 'Vibration Problems in Engineering'
Dr E. H. S. Burhop: 'Transient Forms of Matter'
Mr Reginald Butler: 'Work in Progress'
Dr A. Comfort: 'Darwin and Freud'
Mr J. C. Crossley: 'Latin America in the Twentieth Century'
Dr Elizabeth M. Deuchar: 'How Embryos Develop: Grafting Experiments and the Organiser Concept'
Dr M. Mary Douglas: 'The Abominations of Leviticus XI (an anthropologist's interpretation)'
Dr G. E. Fogg: 'Life on Mars'
Mr Andrew Forge: 'Painting since the War'
Dr H. Kalmus: 'Sensations and Stimuli'
Mr L. B. Keeble: 'Making Town Planning Pay'
Mr J. H. Kells: 'Clytaemnestra: the Problem of Matricide in Greek Drama'
Mr J. L. Kirby: 'The Beginnings of Letter-Writing in the English Language'
Dr J. R. Morris: 'Early Christian Rebels'
Mr K. J. Palmer: 'Bay City Cops: the writings of Raymond Chandler'
Mr F. Parkinson: 'German Unification: problems and prospects'
Professor L. S. Penrose: 'Human Chromosomes'
Mr N. J. B. Plomley: 'The Tasmanians: an Extinct Race'
Dr K. Ridgway: 'Problems of Early Steam Engine Design'
Professor C. M. Robertson: 'Man and his Setting in Greek Art'
Dr R. W. R. Rutland: 'Radioactivity in the Earth's Crust'
Dr B. Schlaffenberg: 'The American Town Today'
Professor O. Skutsch: 'A. E. Housman, Scholar and Poet'
Dr A. W. Stonier: 'The Differences between English and American Universities'
Mr A. J. Taylor: 'The Industrial Revolution: myth and reality'
Dr D. P. Walker: 'Eternal Damnation in the Seventeenth Century'
Professor R. Weiss: 'The Rise of Humanism in England'

LECTURES ARRANGED BY COLLEGE DEPARTMENTS

This list includes only those lectures given by visiting lecturers or by honorary members of the staff.

BIOCHEMISTRY

Dr S. J. Bach, Bristol: 'The Metabolic Fate of Protein-Nitrogen in the Mammal' (two lectures)
Professor Z. M. Bacq, Liège: 'The Enzymatic Inactivation of Adrenalin and Noradrenaline'
Dr P. N. Campbell, Courtauld Institute of Biochemistry: 'The Synthesis of Protein by the Cytoplasmic Components of Animal Cells' (three lectures)
Professor E. P. Kennedy, Chicago: 'The Biosynthesis of Complex Lipids' (two lectures)
Dr Antoinette Pirie, Oxford: 'The Biochemistry of the Eye' (two lectures)
Dr Elizabeth Work, Twyford Laboratories: 'The Mucopeptides of Bacterial Cell Walls' (two lectures)

LAWS

Mr A. Goodman: 'The Law of Defamation and Freedom of Speech'

Master I. H. Jacob, Master of the Supreme Court: 'The Present Importance of Pleadings'

Mr D. J. Payne, Oxford: 'Proof of Negligence and *Res ipsa loquitur*'

LIBRARIANSHIP AND ARCHIVES

Mr Graham Pollard: 'Commentaries on the Physical Development of Books' (three lectures)

PHARMACOLOGY

Dr H. Wirz, Basle: 'The Mechanism of Urinary Concentration and Dilution'

COMMUNICATION RESEARCH CENTRE LECTURE

Professor W. G. Hellinga, Amsterdam: 'The Speech of Deaf Children'

APPENDIX VII

NUMBERS OF STUDENTS, SESSION 1959–60

Faculty of Arts:	*Under-graduates*	*Post-graduates*	*Totals*
(*a*) General	920 (295)	233 (74)	1153 (369)
(*b*) Department of Political Economy	132 (3)	11 (—)	143 (3)
(*c*) Slade School of Fine Art	204 (20)	8 (1)	212 (21)
(*d*) Bartlett School of Architecture	161 (10)	5 (3)	166 (13)
(*e*) Department of Town Planning	95 (89)	30 (30)	125 (119)
(*f*) School of Librarianship and Archives	3 (3)	48 (10)	51 (13)
Faculty of Science	676 (9)	376 (103)	1052 (112)
Faculty of Medical Sciences	161 (—)	8* (1)	169 (1)
Faculty of Engineering	198 (—)	92 (9)	290 (9)
Faculty of Laws	329 (61)	114 (52)	443 (113)
	2,879 (490)	925 (283)	3,804 (773)

* This figure excludes 39 full-time and 3 part-time postgraduate students working in Departments in the Faculty of Medical Sciences who were registered in the University Faculty of Science.

The figures in brackets indicate the number of part-time students which is included in the total under each head.

APPENDIX VIII

GEOGRAPHICAL DISTRIBUTION OF STUDENTS, SESSION 1959–60

	Under-graduates	*Post-graduates*	*Totals*
UNITED KINGDOM			
London	335	117	452
Home Counties (30-mile radius)	820	253	1,073
Remainder of United Kingdom	1,278	215	1,493
BRITISH COMMONWEALTH OF NATIONS			
Australia	11	22	33
Canada	8	37	45
Ceylon	5	7	12
Ghana	12	8	20
Hong Kong	13	6	19
India	28	51	79
Malaya	6	4	10
Nigeria	54	9	63
21 Other Countries	70	54	124
OTHER PARTS OF THE WORLD			
Egypt	8	12	20
France	50	3	53
Germany	27	3	30
Iraq	5	9	14
Israel	6	7	13
Italy	7	4	11
Netherlands	10	2	12
Spain	5	5	10
Sweden	14	1	15
Thailand	6	5	11
U.S.A.	29	37	66
48 Other Countries	72	54	126
Totals	2,879	925	3,804

SUMMARY

United Kingdom	3,018
British Commonwealth of Nations	405
Other Parts of the World	381
	3,804

APPENDIX IX

APPLICATIONS AND ADMISSIONS SESSION 1959–60

FIRST DEGREE AND FIRST DIPLOMA STUDENTS

FACULTY OF ARTS	*Applicants for Admission*	*Students Admitted October* 1959
B.A. Honours		
Anthropology	17	4
Dutch	1	1
English	460	41
French	459	25
Geography	158	27
German	142	18
Greek and Latin	101	14
Hebrew	7	1
History	361	33
Italian	20	7
*Mathematics	—	—
Philosophy and Economics	33	6
Philosophy and Psychology	15	2
Philosophy	31	8
Psychology	46	11
Scandinavian Languages	9	5
	1,880	204
B.Sc.(Econ.)	850	47
University Diploma in Fine Art	300	41
B.A. Honours in Architecture	114	13
Diploma in Architecture		9
Certificate in Decoration	18	12
	132	34

FACULTY OF SCIENCE		
B.Sc.(Special)		
Anatomy	1	1
Anthropology	12	2
Astronomy	8	4
Biochemistry	53	11

* Included in figures for Mathematics under Faculty of Science.

	Applicants for Admission	*Students Admitted October 1959*
Botany	96	13
Chemistry	565	49
Geography	81	15
Geology	128	8
Mathematics	410	25
Physics	599	46
Physiology	39	9
Psychology	61	10
Statistics	25	11
Zoology	235	11
	2,293	214
FACULTY OF LAWS		
LL.B.	500	87
FACULTY OF ENGINEERING		
B.Sc.(Eng.)		
Chemical Engineering	249	17
Civil and Municipal Engineering	323	19
Electrical Engineering	305	17
Mechanical Engineering	306	13
	1,183	66
FACULTY OF MEDICAL SCIENCES		
2nd Examination for Medical Degrees ..	771	59
2nd Examination for Dental Degrees ..	270	25
	1,041	84
Total	8,199	777

APPENDIX X

UNIVERSITY HONOURS

HIGHER DEGREES

FACULTY OF ARTS

D.Lit. *Egyptology:* R. O. Faulkner. [1]

Ph.D. *English:* M. Aslam, A. Singh, L. Whitworth. *French:* Jean Lawrence *Geography:* J. T. Coppock, K. B. Dickson. *Greek Papyrology:* J. R. Re *History:* A. S. Milward, G. A. Williams. *Psychology:* M. Wasim. [10]

M.A. *Classics:* Molly M. Wicks. *English:* Norma F. Bevis, J. E. Danby, Helen L. Donaldson (Mark of Distinction), A. D. Mills (Mark of Distinction). *History:* M. O'Dwyer. *General Linguistics and Phonetics:* B. E. Surtees (Mark of Distinction). [7]

FACULTY OF ECONOMICS

M.Sc. R. Das, L. S. Edmonds, N. B. Hudson, Lo Sum Yee, H. I. Stebbins, D. F. Stevens, S. S. Tarapore. [7]

FACULTY OF LAWS

LL.M. E. A. K. Akuoko, J. B. M. Armour, Lily W. Ferdinand, B. S. Grewal, H. O. H. Khan, N. Nettar, S. C. Ogwurike, O. Okongwu. [8]

FACULTY OF SCIENCE

D.Sc. *Biochemistry:* P. N. Campbell. *Chemistry:* Catherine G. Le Fèvre, J. Lewis, A. Maccoll, Y. Pocker. *Physiology:* H. J. A. Dartnall, J. M. Ritchie. [7]

Ph.D. *Anatomy:* K. E. Webster. *Biochemistry:* J. B. Balinsky, D. N. Planterose, M. A. Rahman. *Botany:* Marie N. E. Adams, M. D. Hooper, Regina Pietruszko, E. R. S. Talpasayi. *Chemistry:* C. A. Armour, J. Barr, J. E. Bertie, D. M. Bishop, J. E. Fergusson, J. M. Hollas, D. N. Kevill, E. A. Magnusson, B. Nayak, J. E. Packer, P. J. Pauling, W. T. Raynes, J. B. Risk, R. T. B. Rye, D. E. Scaife, J. E. Scutt, G. F. W. Smith, P. J. Staples, S. H. Walmsley, V. A. Welch. *Genetics:* G. R. Fraser. *Geology:* K. J. Ackermann, W. A. Gordon, R. Nicholson, B. J. Walton. *Mathematics:* K. B. Ranger, J. H. Wilkinson. *Pharmacology:* R. J. Ladd. *Photoelasticity:* B. K. Agarwala. *Physics:* M. G. R. Aub, M. R. Bhiday, D. H. Davis, A. Ghani, J. G. Gilson, G. Heymann, R. J. Huck, T. L. John, W. Laskar, J. M. McNamee, A. Scott, A. C. H. Smith, C. Tate, R. H. Thomas, J. Underhill. *Physiology:* B. R. Jewell, D. N. Salter. *Psychology:* Sheila Jones, L. H. Shaffer, Elizabeth K. Warrington. *Statistics:* M. Branson, T. I. McGloughlin. *Zoology:* Jean B. Brown. [60]

M.Sc. *Biochemistry:* J. de D. Calle, Joan P. Chang, C. D. Ginger, H. M. Henderson, G. Margetts, B. F. Pasby, M. A. Williams, R. Williamson.

History and Philosophy of Science: Margaret E. Baron, C. F. Bartholomew, W. Clamp, S. N. Robertson, R. S. Woolner. *Mathematics:* *R. R. Dalle Nogare (Mark of Distinction), M. E. O'Neill (Mark of Distinction). *Microbiology:* Fatima Begum, Gillian A. Blackwood, A. D. Hitchins, A. Voller. *Physiology:* A. K. Huggins. [20]

FACULTY OF ENGINEERING

D.Sc. *Electrical:* J. Brown. [1]

Ph.D. *Civil:* J. K. Baron-Hay, *V. Ramakrishnan. *Electrical:* R. H. Clarke, L. E. Davis, E. V. Juli, H. S. Stachera, L. M. Stephenson, M. G. F. Wilson. *Mechanical:* B. C. Lindley. [9]

M.Sc. *Civil:* E. D. Stow. [1]

* Also registered at another Institution.

FACULTY OF MEDICINE

Ph.D. *Biochemistry:* K. P. Sinha. [1]

UNIVERSITY POSTGRADUATE STUDENTSHIPS

Anthropology: Jocelyne Richard. *Chemistry:* G. Doggett. *Geology:* P. Strogen. *History:* L. M. Bethell. *Mathematics:* Gillian M. Adams. *Physics:* A. D. Martin. *Psychology:* Anne R. Grunfeld. *Zoology:* P. Merrett. *Fine Art:* J. G. Bevan. *Psychology:* A. R. Pike.

OTHER AWARDS

W. S. Masom Scholarship (*Classics*): Margaret M. McCormick.

APPENDIX XI

COLLEGE AWARDS TO STUDENTS

I.—ENTRANCE SCHOLARSHIPS

Andrews Scholarships.—Arts: Mary A. M. Ceresole, International School, Geneva. *Classics:* D. I. McDermott, St Michael's College, Leeds. *Science:* P. J. Smith, Taunton's School, Southampton.

Bartlett Exhibitions in Architecture.—M. J. Birch, Torquay Grammar School; A. P. Matthews, Aberayron County School.

Epsom Medical Scholarship.—P. A. Andersen (1958 award); J. F. Edmonds.

Goldsmid Scholarships.—Science: R. J. Littleton, Tiffin Boys' School. *Engineering:* P. W. Johnson, Cheadle Hulme School.

Librarianship Exhibition.—B. P. Jones, University of Wales.

Rosa Morison Scholarship.—Pamela A. Jackson, Hastings High School for Girls.

Slade Entrance Scholarship.—A. K. Henderson, Harrow Grammar School.

II.—OTHER SCHOLARSHIPS AND DISTINCTIONS

Anatomy Class Prizes.—Medical: R. D. Lund and Susan R. Packer, prize equally divided. *Dental:* Valerie L. Mann.

Anatomy and Physiology (B.Sc. Degree) Exhibitions.—Anatomy: J. E. Castro; D. G. Jones; R. D. Lund; J. T. Styles; D. A. Terry; M. E. Tolley. *Physiology:* Jessica Greenbaum; B. P. Greenwood.

Anatomy and Physiology (B.Sc. Degree) Scholarships.—Anatomy: P. F. M. Wrigley. *Physiology:* D. W. Littlejohns; P. J. Martin; M. J. Tidd.

Herbert Batsford Prize (Architecture).—B. B. Nutt.

The Bayliss-Starling Memorial Scholarship (Physiology and Biochemistry).—Helen Dodsworth.

Francis Perch Bedford Prize (Zoology).—D. Nash.

Ada Heather Bigg Prize (Economics).—C. J. Parker.

Alfred Bossom Prize in Domestic Architecture.—J. G. E. M. Douqué (£6) and R. H. Pollard (£4), prize divided.

Alfred Bossom Atelier Prizes.—English Architecture: G. D. Locke. *Contemporary Architecture:* A. J. Monk.

Mary Brodrick Prize (Geography).—F. C. Green.

'The Builder' Prizes (Architecture).—Measured Drawings (for work done in the Long Vacation 1959).—*Senior:* R. J. Faircliff. *Junior:* R. Beacham. *Architectural Sketches:* Alison K. Fennell.

Bunnell Lewis Prizes for Latin Verse.—N. A. Kobish (*Lyrics*) and W. A. Lockwood (*Hexameters*), prize equally divided.

Carey Foster Research Prize (Physics).—B. R. Easlea.

The Chadwick Medal and Prize (Civil Engineering).—B. J. Thorpe.

Churchill-Jenkinson Prize (Archive Administration).—D. Huws and Frances A. Ratcliffe, prize equally divided.

Antonio Cippico Medal and Prize (*Italian*).—Lynn V. Boden and Daphne L. Hughes, medal each and prize equally divided.

Lilian Clarke Prize (*Botany*).—Lorna A. Smith.

Clinton Prize (*Electrical Engineering*).—C. M. Clarke.

Cowley Prizes (*Archive Administration and Librarianship*).—*Archive Administration:* C. G. Holland. *Librarianship:* R. A. Christophers.

Derby Scholarship (*Zoology*).—P. Merrett.

Dolley Memorial Prize (*History*).—R. Holman.

Donaldson Medal and Prize (*Architecture*).—D. A. Hutchison.

Early English Text Society's Prize.—Ursula Edwards.

Esso Studentship in Chemical Engineering.—M. T. Hutchinson.

Studentships in Film.—R. E. Durgnat; D. A. Levy.

Sir Banister Fletcher Prize and Medal (*Architecture*).—D. A. Hutchison.

Foreign Student Scholarship in Arts.—Gisela Krien-Kummrow.

Foyle Prize (*Latin*).—Mary P. Jenkinson.

Edith Goodyear Prize (*Geology*).—C. W. M. Claxton.

Archibald P. Head Memorial Medal and Prize (*Mechanical Engineering*).—J. W. Pendered.

T. G. Hill Scholarship (*Botany*).—Stella Neale.

Elsie Hitchcock Prize (*English*).—M. J. Tolley.

John Oliver Hobbes Memorial Scholarship in Modern English Literature.—E. W. Domville.

Hollier Scholarships (*Greek*).—Shirley A. Barlow; Gisela Krien-Kummrow.

R. B. Hounsfield Prizes.—Town Planning and Civic Engineering: W. J. Tassie.

Joseph Hume Scholarship in Jurisprudence.—W. R. Bugler.

Hurst Prize in English Law.—G. A. Lightman.

The Incorporated Institute of British Decorators Prize.—Judith J. Blythin.

Jevons Memorial Scholarship in Economic Science.—J. W. Finler.

Jews' Commemoration Scholarship.—Anthea Gaukroger (Arts).

Jolowicz Prize (*Roman Law*).—Patricia Walker.

Ker Memorial Prize (*English*).—O. Knowles.

Postgraduate Scholarship in Laws.—F. J. J. Cadwallader.

Leverhulme Studentship in Chemical Engineering.—V. J. Ibberson.

Librarianship (*Special Prize, Part II*).—Margaret W. Robinson.

Lloyd Scholarship in Modern Greek.—M. F. Gretton.

Sir John MacAlister Medal and Prize (*Librarianship*).—Catherine M. Legg.

Malden Scholarship (*Greek*).—Shirley A. Barlow.

Medical Postgraduate Scholarships.—R. A. Paterson; D. B. A. Symons.

Momber Scholarship in Physics.—G. C. Oades.

Rosa Morison Prizes.—Anthropology: A. D. Sanders. *French:* B. Kite. *Philosophy:* A. A. Coker (£3) and I. R. Wilson (£2), prize divided. *Scandinavian Languages:* A. G. B. Wilshaw.

Rosa Morison Postgraduate Scholarship in Arts.—W. M. P. Kruijssen.

Rosa Morison Scholarship in English Language and Literature.—Ursula Edwards.
Morley Medal and Prize (*Modern English Literature*).—G. V. Watson.
Morris Prize (*Geology*).—K. B. Macdonald.
Oliver Scholarship (*Botany*).—Stella Neale.
Parry Prize (*Geography*).—M. D. Avery.
Catherine Maude Pearce Scholarship for Senior Women Students.—Shashi Mehra.
Physiology Prizes.—Medical: D. W. Littlejohns. *Dental:* J. N. Coulson.
Platt Prizes (*Greek*).—R. A. Chapman; A. A. Long; M. A. Moore.
Pollard Prize (*History*).—G. J. Gammon.
Theodora Prankerd Memorial Scholarship in Botany.—Stella Neale.
Quain Studentship in Biology.—R. O. D. Dixon.
Ramsay Memorial Medal and Prize (*Chemistry*).—D. V. Banthorpe.
Ricardo Scholarship (*Political Economy*).—P. Ellwood.
Graham Robertson Travelling Scholarship (*Fine Art*).—L. H. Maurice.
Robert Ross Scholarship in Fine Art.—R. Wardle.
L. M. Rothschild Scholarship (*French*).—Christine H. M. Horton.
Sharpey Physiological Scholarship.—K. Diete-Spiff.
Slade Scholarships.—D. R. Creffield; A. J. Dickson; M. Dubsky; K. Lee; G. P. Levene.
Suckling Memorial Prize (*Practical Anatomy*).—J. E. Castro.
Sir Andrew Taylor Prize in Architecture.—R. J. Faircliff.
Sir Andrew Taylor Prize in Fine Art.—D. Hepher.
Henry Tonks Prize (*Fine Art*).—A. E. S. Green.
Troughton Postgraduate Scholarship.—Gwendolen P. Watson.
Tuffnell Scholarship (*Chemistry*).—K. S. Buckton.
L. F. Vernon-Harcourt Prize (*Civil Engineering*).—J. F. T. Heardman.
Thomas Viola Prize (*Stage Design*).—H. F. Gosney.
Ellen Watson Memorial Scholarship in Applied Mathematics.—B. L. Luffman.

APPENDIX XII

EXAMINATION RESULTS

FACULTY OF ARTS

B.A. (Honours)	*1st Class*	*2nd Class*		*3rd Class*	*Total*
		Upper Div.	*Lower Div.*		
Anthropology	1	—	5	—	6
Classics	3	7	3	3	16
English	2	5	22	10	39
French	1	10	7	6	24
Geography	2	4	13	2	21
German	—	5	8	4	17
Greek	1	—	—	—	1
Hebrew	—	1	—	1	2
History	—	17	16	1	34
Italian	—	3	—	2	5
Latin	1	—	—	1	2
Mathematics	—	1	1	1	3
Philosophy and Economics	—	—	2	—	2
Philosophy and Psychology	—	1	1	—	2
Philosophy	—	5	4	2	11
Psychology	2	6	4	—	12
Scandinavian Languages	—	1	—	1	2
	13	66	86	34	199

	Pass	*Total*
B.A. Aegrotat	2	2

	1st Class Honours	*2nd Class Honours*	*Pass*	*Total*
B.A. Architecture	1	2	1	4

FACULTY OF ECONOMICS

	1st Class Honours	*2nd Class Honours*		*Pass*	*Total*
		Upper Div.	*Lower Div.*		
B.Sc. (Economics)	—	†14	†20	*7	41

* Includes one student also registered at another Institution.
† Includes two students also registered at another Institution.

FACULTY OF LAWS

	1st Class Honours	*2nd Class Honours*		*Pass*	*Total*
		Upper Div.	*Lower Div.*		
LL.B.	1	11	32	29	73

FACULTY OF SCIENCE

B.Sc. (Special)	*1st Class Honours*	*2nd Class Honours* Upper Div.	Lower Div.	*3rd Class Honours*	*Total*
Anatomy	1	4	—	—	5
Anthropology	—	—	—	1	1
Astronomy	—	1	3	1	5
Biochemistry	—	4	2	—	6
Botany	2	5	7	2	16
Chemistry	4	11	14	7	36
Geography	—	4	11	1	16
Geology	—	4	4	1	9
Mathematics	3	1	10	10	24
Physics	10	4	14	9	37
Physiology	1	3	7	1	12
Psychology	1	6	5	2	14
Statistics	—	1	3	—	4
Zoology	2	1	4	1	8
	24	49	84	36	193

B.Sc. Degree	*Pass*	*Total*
Biochemistry	2	2
Physiology	4	4
Statistics	3	3
	9	9

	1st Division	*2nd Division*	*3rd Division*	*Total*
B.Sc. (General)	—	—	2	2

FACULTY OF ENGINEERING

	1st Class Honours	*2nd Class Honours* Upper Div.	Lower Div.	*Pass Degree*	*Total*
B.Sc. (Engineering)	7	16	9	22	54
B.Sc. (Engineering) Chemical Engineering	1	3	4	6	14

FACULTY OF MEDICINE

Second Examination for Medical Degrees: 53 students passed.

APPENDIX XIII

BENEFACTIONS AND DONATIONS

The College Committee makes grateful acknowledgment of the following gifts:

ADMIRALTY

(1) A grant not exceeding £6,500 for one year from 1 October 1959 for research in the Department of Electrical Engineering on thermionic valves.

(2) A grant not exceeding £5,400 for one year from 1 October 1959 for the Department of Physics for upper atmospheric research.

(3) An additional grant of £134 for one year from 1 October 1959 for research in the Department of Electrical Engineering on transmission of microwave power.

AGRICULTURAL RESEARCH COUNCIL

A grant not exceeding £843 for one year from 1 April 1960 for research in the Department of Chemistry on threonine dehydrase from sheep liver.

ALBRIGHT AND WILSON LIMITED

A grant of £100 for research in the Department of Chemistry.

ANONYMOUS

A collection of Protozoa to be known as the 'Doris Livingston Mackinnon Collection' for the Department of Zoology.

ASSOCIATED-REDIFFUSION LIMITED

(1) A grant of £500 for the study of the Film in the Department of Fine Arts.

(2) A grant of £500 for research in the Department of Electrical Engineering on trunk waveguides as television links.

BANK OF LONDON AND SOUTH AMERICA LIMITED

A grant of £25 per annum for seven years from 25 September 1957 for the Latin American History Library.

BARING BROS. AND COMPANY LIMITED

A grant of £25 per annum for four years from January 1960 for the Latin American History Library.

PROFESSOR H. HALE BELLOT

A grant of £100 for the American History Fund, Institute of Historical Research.

CHARLES LESLIE BENNETT

A bequest of £700.

BOOTS PURE DRUG COMPANY LIMITED

£300 per annum for two years from October 1959 for a studentship in the Department of Chemical Engineering.

BRITISH ACADEMY

A grant of £250 for the preparation and publication of a second edition of 'The catalogue of the manuscripts of Jeremy Bentham in the Library of University College London'.

BRITISH CELANESE LIMITED

A grant of £100 for the general upkeep of the Department of Chemical Engineering.

BRITISH ELECTRICAL AND ALLIED INDUSTRIES RESEARCH ASSOCIATION

A grant of £650 for one year from 1 August 1959, and a further grant of £270 for the period 1 August 1960 to 31 December 1960, for investigation by the Department of Electrical Engineering on the general subject of magnetic materials.

BRITISH EMPIRE CANCER CAMPAIGN

(1) Grants amounting to £255 for 1959 and £458 for 1960 for chemical study, in the Department of Chemical Engineering, of lipid-protein complexes extractable from normal and cancerous human lungs.

(2) A grant of £2,043 for the year 1960 for cancer research in the Department of Chemistry.

(3) A grant of £507 for the year 1960 for cancer research in the Department of Zoology.

BRITISH GLUES AND CHEMICALS LIMITED

A grant of £400 per annum for 1959–60 and 1960–61 for a research studentship in the Department of Chemical Engineering.

BRITISH NYLON SPINNERS LIMITED

A grant of £500 per annum for three years from October 1957 for a research studentship in the Department of Chemistry.

BRITISH TITAN PRODUCTS COMPANY LIMITED

A grant of £1,100 per annum for three years from 1 October 1957 for two research studentships in the Department of Chemistry.

CEMENT AND CONCRETE ASSOCIATION

A grant of £250 per annum for four years from 1 October 1956 for research in the Department of Civil and Municipal Engineering in concrete technology.

CLARENDON PRESS

A grant of £1,000 for a survey in the Department of English of Educated English Usage.

DANISH GOVERNMENT

A grant of £75 for 1959–60 towards the provision of the allowance payable to a Visiting Professor of Scandinavian Studies.

PROFESSOR H. DAVENPORT

A silver rose bowl.

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

(1) A grant not exceeding £2,755 for the period 1 July 1959 to 30 September 1961 for research in the Department of Physics on the interaction of high energy particles using nuclear emulsion techniques.

(2) A grant not exceeding £6,230 for three years from 1 October 1959 for investigation by the Departments of Psychology and Physiology into muscular skill and physiological efficiency.

(3) A grant not exceeding £3,824 for two years from 1 October 1959 for use by the Department of Physics in the development of a 28 MeV microtron and measurement of the scattering of electrons and photons.

(4) A grant of £3,700 for the year from 1 October 1959 for research in the Department of Civil and Municipal Engineering on the effect of waves on beaches.

(5) A grant not exceeding £3,096 for two years from 1 October 1959 for investigation by the Department of Civil and Municipal Engineering of stresses in arch dams of variable thickness.

(6) A grant not exceeding £2,600 for one year from 1 October 1959 for investigation by the Department of Zoology of the upper Triassic mammals from South Wales.

(7) A grant not exceeding £2,101 for one year from 1 October 1959 for investigation by the Department of Zoology of immunity in insects.

(8) A grant of £975 for two years from 1 October 1959 for research in the Department of Electrical Engineering on the propagation of surface radio waves.

(9) A grant not exceeding £500 for one year from 1 October 1959 for research in the Department of Physics on transport properties of atomic gases.

(10) A grant not exceeding £3,191 for three years from 1 January 1960 to 31 December 1962 for investigation in the Department of Physics of the interaction of nucleons with other nucleons and with light nuclei.

(11) A grant not exceeding £1,075 for one year from 1 January 1960 for biochemical investigation in the Department of Botany of the alga monodus.

(12) A grant not exceeding £35,450 for three years from 1 April 1960 for the Department of Physics for rocket research in the upper atmosphere.

(13) A grant not exceeding £8,880 for three years from 1 April 1960 for research in the Department of Physics on the development and use of photoelectric satellite tracking equipment.

(14) A grant not exceeding £457 for one year from 1 May 1960 for a survey in the Department of Mechanical Engineering of the literature on heat transfer in pipes and channels of non-circular section.

(15) A grant not exceeding £6,409 for three years from 1 June 1960 for a study in the Department of Mechanical Engineering of unsteady flow in pipes.

(16) A grant not exceeding £2,250 for one year from 1 October 1960 for a senior visiting fellowship in the Department of Physics.

Development Commission

A grant not exceeding £850 per annum for two years from 1 October 1959 for investigation by the Department of Botany into the production of extra-cellular substances by algae.

Diamond Corporation

A grant of £200 for one year from June 1959 for research in the Department of Chemistry on diamonds.

Distillers Company

Equipment (autoclave, fermenting tanks, large assay plates) for the Department of Botany.

E.I. Du Pont De Nemours and Company

$6,000 for one year from 1 March 1960 for fundamental research in the Department of Chemistry on Tungsten and Molybdenum.

Empire Rheumatism Council

A grant of £450 for one year from 1 January 1960 for research in the Department of Physiology on the properties of connective tissues.

Esso Research Limited

(1) A grant of £850 for one year from January 1960 for research in the Department of Chemistry on crystal spectra of simple aromatic molecules.

(2) A grant of £250 for the expenses of computing services in the Department of Chemistry.

Sir Alexander Gibb and Partners

A grant of £895 for the period 1 January 1960 to 30 September 1960 for investigation in the Department of Civil and Municipal Engineering of stresses in arch dams of variable thickness.

The Grocers' Company

A grant of £200 per annum from 1959 for a Stephen Glanville memorial award.

Sir William Halcrow and Partners

A grant of £354 for the period 1 January 1960 to 30 September 1960 for investigation in the Department of Civil and Municipal Engineering of stresses in arch dams of variable thickness.

Hispanic and Luso-Brazilian Councils

A grant of £50 for the Latin American History Library.

HOME OFFICE

A grant of £160 for the period 1 November 1959 to 31 March 1960 for research in the Department of Psychology into the results of approved school training.

HOUBLON-NORMAN FUNDS

A grant not exceeding £1,600 for one year from 1 October 1959 for travel and expenses incurred by the Department of Political Economy in connection with a study of the Chinese system of economic planning with special reference to international trade.

H. WINIFRED HUSBANDS

Contributions in her memory totalling £48 9*s*. from friends and relatives for the Benevolent Fund of the College.

INSTITUTE OF SEAWEED RESEARCH

A grant of £497 for one year from 1 October 1959 for investigation by the Department of Botany into the chemical composition of marine microalgae when grown in culture.

IRAQ PETROLEUM COMPANY LIMITED

A grant of £500 for one year for the extension of a research studentship in Palynology in the Department of Geology.

LEVERHULME TRUST FUND

(1) A grant of £1,000 for 1960–61 for a research fellowship in the Department of Anthropology.

(2) A grant of £300 for the purchase of atlases and Peruvian sheet maps for the Department of Geography.

LIFE INSURANCE MEDICAL RESEARCH FUND

A grant of $500 for 1959–60 for neuro-muscular research in the Department of Biophysics.

LONGMANS GREEN AND COMPANY LIMITED

A grant of £2,000 per annum under deed of covenant for seven years from July 1960 for a survey in the Department of English of Educated English Usage.

MEDICAL RESEARCH COUNCIL

(1) A grant of £2,020 for the period 1 October 1958 to 30 June 1960 for research in the Department of Phonetics on the nature of thinking as revealed through the speech process.

(2) A grant of £650 for one year from 1 July 1959 for research in the Department of Biochemistry on the role of permeability changes in cell and mitochondrial membranes in liver injury.

(3) A grant of £600 for one year from 1 September 1959 for research in central neurophysiology in the Department of Physiology.

(4) A grant not exceeding £350 for one year from 21 September 1959 for study in the Department of Physiology of the processes of the continuous eruption of the mandibular incisors.

(5) A grant of £850 per annum for one year from 1 October 1959 for the study in the Department of Physiology of the effect of neuronal rest on the output of sympathetic transmitter from the spleen of the cat.

(6) A grant not exceeding £815 for one year from 1 October 1959 for research in the Department of Psychology on inductive and deductive thinking.

(7) A grant of £270 for one year from 1 October 1959 for research in the Department of Zoology on the physiology of ageing in drosophila.

(8) A grant of £1,685 for one year from 1 January 1960 for research in the Department of Anatomy and Embryology on the determination of conditions concerned in starting, stopping and orientating movements of normal and malignant cells in tissue culture.

(9) A grant of £489 for one year from 1 January 1960 for research in the Department of Zoology on the immunology of transplantation.

(10) A grant not exceeding £350 for one year from 5 January 1960 for investigation by the Department of Physiology into the nature of epilepsy.

(11) A grant of £820 for one year from 1 April 1960 for research in the Department of Biophysics on electron-microscopy and other studies into the fine structure of biological systems.

(12) A grant of £350 for one year from 1 April 1960 for study in the Department of Physiology of the distribution of acetylcholine in sympathetic ganglia.

(13) A grant not exceeding £170 for one year from 1 April 1960 for research in the Department of Physiology on the mechanical, neural and endocrine factors controlling the eruption of teeth.

(14) A grant not exceeding £850 for one year from 1 May 1960 for research in the Department of Biochemistry on retinal metabolism.

(15) A grant of £1,000 for one year from 1 October 1960 for study in the Department of Pharmacology of delayed allergic reactions, with special reference to the role of cell-bound antibodies in autosensitization.

(16) A grant not exceeding £560 for special apparatus in the Department of Physiology for an investigation of the characteristics of regenerating nerve terminals.

Ministry of Aviation

(1) A grant not exceeding £1,032 for one year from 28 September 1959 for studies in the Department of Chemistry on the structures of explosives by nuclear magnetic resonance and quadrupole spectra.

(2) A grant not exceeding £1,000 for one year from 1 October 1959 for research in the Department of Electrical Engineering into the dielectric properties of polycrystalline photoconductive film in microwave fields.

(3) A grant not exceeding £1,000 for one year from 1 October 1959 for investigation in the Department of Electrical Engineering of the circuit properties of microwave mixers.

(4) A grant not exceeding £102 for the period 1 October 1959 to 30 November 1959 for research in the Department of Electrical Engineering on radar characteristics of reflections from water waves.

(5) A grant not exceeding £1,059 for one year from 1 May 1960 for the Department of Physics for detection of atomic resonance by the use of optical pumping.

MINISTRY OF SUPPLY

(1) A grant not exceeding £520 for one year from 15 June 1959 for research in the Department of Civil and Municipal Engineering on effects of thermal conditions in aircraft camera windows, and of heating systems on the resolution of aircraft cameras.

(2) A grant not exceeding £2,500 for one year from 1 October 1959 for the measurement of electron attachment coefficients in low pressure gases in the Department of Physics.

(3) A grant not exceeding £1,622 for one year from 1 October 1959 for research in the Department of Phonetics in sound coded speech.

(4) A grant not exceeding £3,600 for one year from 1 December 1959 for investigation in the Department of Electrical Engineering of the measurement at centimetre wavelengths of surface currents on conducting objects in an incident plane electromagnetic field.

NATIONAL FOUNDATION, NEW YORK

A grant not exceeding $1,250 per annum for the period 1 October 1959 to 30 June 1961 for a post-doctoral research fellowship in the Department of Chemistry.

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

(1) A grant not exceeding £27,190 for the period 1 August 1959 to 30 September 1960 for the Physics Department for design study for a heavy liquid bubble chamber.

(2) A grant of £1,250 for the period September 1959 to December 1960 for experiments in the Department of Physics with the proton linear accelerator.

NATURE CONSERVANCY

A grant of £5,666 for three years from 1 July 1960 for research in the Department of Geology on the sedimentation of the north basin of Windermere.

NORWEGIAN GOVERNMENT

A grant of £75 for 1959–60 towards the provision of the allowance payable to a Visiting Professor of Scandinavian Studies.

NUFFIELD FOUNDATION

An additional grant of £800 for one year for study in the Department of Botany of the acetate metabolism of Chlorella.

PARKE DAVIS AND COMPANY

A grant of £350 for one year from 1 October 1959 for research in the Department of Physiology on inflammation, peptides and related topics.

W. D. REYNOLDS

A glazed engraving of the Portico of the College in 1904–1908 by Wallace Hester.

ROCKEFELLER FOUNDATION

A grant not exceeding $3,500 for enable Dr J. R. Pole, Department of History, to carry out research work at the University of California on the concept of political misrepresentation.

ROTHMANS LIMITED

A grant of £444 for salvaging and restoration of Rex Whistler murals.

ROYAL SOCIETY

(1) A grant not exceeding £3,745 for the period 1 April 1959 to 30 September 1959 and a further grant of £4,765 for the period 1 October 1959 to 31 March 1960 for rocket research in the Department of Physics.

(2) A grant of £3,544 for two years from 1 October 1959, being a Locke Research Fellowship award to Dr B. G. Cragg of the Department of Anatomy and Embryology, and a further grant of £300 for the period 1 October 1959 to 31 March 1960 for his research expenses.

(3) A grant of £800 for one year from 1 October 1959 for research in the Department of Physics on excitation of spectra at speeds characteristic of auroral excitation.

(4) A grant of £603 for investigation in the Department of Chemistry on spectroscopy of complex molecules and ions.

(5) A grant of £425 for the purchase of a microwave signal generator for the Department of Electrical Engineering.

J. K. G. SARJEANT

A gift of £15 15*s.* for prize money for a small competition for third year students in the Bartlett School of Architecture.

SHELL INTERNATIONAL PETROLEUM COMPANY LIMITED

A grant of £60 for 1960–61 for the Department of Geology for field work.

SHELL PETROLEUM COMPANY LIMITED

A grant of £50 per annum net under deed of covenant (replacing the deed of covenant of 31 January 1957 with Shell-Eagle South American Limited) for seven years from February 1960 for the Latin American History Library.

SHELL RESEARCH LIMITED

A grant of £500 for research in the Department of Chemistry.

Sir Halley Stewart Trust

A grant of £500 per annum for the years 1960, 1961 and 1962 for research undertaken by the Committee for Urban Studies in the Department of Town Planning.

Dr James Boyce Stonebridge

A bequest of £500 primarily for the benefit of the Faculty of Laws of the College.

Edith Lewis Sully

(1) A bequest of approximately £8,000 for the founding of a postgraduate scholarship in the Department of Psychology to be called 'The Sully Scholarship' in memory of her late father, James Sully, Grote Professor of Mind and Logic at University College from 1892–1903.

(2) A portrait of the late Emeritus Professor James Sully.

Swedish Government

A grant of £75 for the year 1959–60 towards the provision of the allowance payable to a Visiting Professor of Scandinavian Studies.

Treasury Development Fund

A grant not exceeding £850 per annum for two years from December 1959 for investigation by the Department of Botany into the production of extra-cellular substances by algae.

United Kingdom Atomic Energy Authority

(1) A grant of £7,420 for one year from 1 October 1959 for research in the Department of Physics on the detection of vacuum ultra-violet radiation.

(2) A grant not exceeding £450 for the period 1 October 1959 to 29 February 1960 for research in the Department of Chemistry on the chemistry of technetium.

(3) A grant not exceeding £500 for the period 2 February 1960 to 1 June 1960 for research in the Department of Civil and Municipal Engineering in the subject of photoelastic stress analysis of a compound pressure vessel.

U.N.E.S.C.O.

A grant of $1,000 for 1960–61, and a grant of $900 for 1961–62 for the preparation and publication of a second edition of 'The Catalogue of the manuscripts of Jeremy Bentham in the Library of University College London'.

Unesco International Council for Philosophy and Humanistic Studies

A grant of £355 for the preparation and publication of a second edition of 'The catalogue of the manuscripts of Jeremy Bentham in the Library of University College London'.

United States Air Force

(1) An additional grant of $20,000 for one year from 1 June 1959 for studies in the Department of Phonetics in the improvement of accuracy and reliability of speech analyser systems.

(2) A grant of $3,000 for a period from December 1959 to 15 June 1960 for research in the Department of Chemical Engineering on the effects of electron collisions in atmospheric gases.

United States National Institutes of Health

(1) A grant of $500 for one year from 5 July 1959 for the study in the Department of Psychology of animal choice behaviour.

(2) A grant of approximately $118,600 for five years from 1 October 1959 for research in the Departments of Psychology and Pharmacology on the psychopharmacology of learning, perception and skill.

(3) A grant of approximately $110,500 for five years from 1 April 1960 for research in the Department of Pharmacology (with the Department of Psychiatry of the Institute of Psychiatry) on psychotropic drugs and autonomic dysfunction.

(4) A grant of approximately $70,000 for five years from 1 April 1960 for research in the Department of Zoology on the nature of antigens responsible for homograft reaction.

(5) A grant of approximately $50,000 for three years from 1 May 1960 for research in the Department of Anatomy and Embryology on control of cell locomotion in relation to malignancy.

(6) A grant of approximately $33,000 for three years from 1 June 1960 for research in the Department of Eugenics, Biometry and Genetics on the mapping of human genes by cell culture to be carried out under the direction of Professor Penrose.

University Museum of Pennsylvania

A grant of $200 for departmental expenses in the Department of Egyptology.

Professor H. E. Watson

A gift of £110 for the provision of hedge plants and windbreak trees for the Shenley Athletic Ground.

Wellcome Trust

(1) A grant of £2,000 per annum for two years from January 1960 for a research studentship in the Department of Eugenics, Biometry and Genetics.

(2) A grant of £95 for the Department of Physiology for the cost of a course in radio-isotope techniques at Harwell attended by D. Noble.

Wenner-Gren Foundation for Anthropological Research, New York

A grant of $1,000 for the Department of Anthropology to aid a comparative study of traditional political organisations in Bamenda, South Cameroons, to be carried out by Dr Phyllis M. Kaberry.

Wyandotte Chemical Corporation

A grant of $4,000 for one year from 1 January 1960, for investigation by the Department of Chemistry of the chemistry of certain nitrogen ligands.

GIFTS TO THE LIBRARY

Among the numerous gifts received by the Library during the session the following may be specially mentioned: an important Scott collection of 190 volumes presented by Sir Arthur McNalty, Fellow of the College, consisting of numerous first and early editions of Sir Walter Scott and interesting works about him; 517 geological maps relating mainly to Australia and Canada, presented by the Overseas Geological Survey; and a collection of 90 books presented by Mrs Anne Oliphant from the library of her late husband, consisting of standard editions of Greek authors and works on Greek literature and history.

APPENDIX XIV

COLLEGE ACCOUNTS 1959–60

The Balance Sheet and the Income and Expenditure Account for the year 1959–60 will be found on pages 100–103.

BALANCE SHEET

Features of special interest were :

LIABILITIES

In the Capital Account is a receipt of £10,000 toward the purchase of neighbouring properties which will eventually be the site of a new Hall of Residence.

Sundry Funds show an increase of £175,251 over the corresponding figure for the previous year, including Superannuation Funds (£76,500) Engineering Appeal receipts (£58,000) Long Term Maintenance (£32,000), and a sum of £10,400 held for the Friends of the College.

Unexpended balances decreased by £40,524, which represents the use of balances of War Damage Compensation for the construction of the New Refectory.

ASSETS

Freehold land and buildings increase by £12,500, representing the purchase mentioned above.

Investments show a net increase of £33,615, due to purchases for the Long Term Maintenance Fund.

The increase under current assets of £109,212 over the previous year, is due to large outstanding claims for grant from the Court of the University under the scheme for revision of salaries.

TRUST FUNDS

The College holds endowments in the form of 174 separate trust funds with a total value of £1,021,298. They yield a gross income of £47,000.

INCOME AND EXPENDITURE

The Income and Expenditure Account shows a surplus of £3,182, as compared with a surplus of £4,393 for the previous year.

Income exceeds that of 1958–59 by £195,957, and includes increases of grants from the Court of the University of £120,000 for general purposes and of £73,639 for revision of salaries for the period January–July 1960.

Expenditure is £197,168 more than in 1958–59. The main feature of this is the increase of salaries under the scheme of revision mentioned above, which cost £73,639, and a further £8,000 for consequential increases not covered by Court Grant. Revision of technicians wages also cost £8,000. A modest expansion in academic activities of some £30,000 per annum was made possible by the increase of the block grant.

The percentages of income and expenditure under the main classifications in the years 1957–58 to 1959–60 are shown in the following table:—

EXPENDITURE	1957–8 %	1958–9 %	1959–60 %	INCOME	1957–8 %	1958–9 %	1959–60 %
Salaries and Pensions of Teaching Staff	49·2	48·5	48·4	Endowments ..	3·1	2·9	2·6
				Grants	84·7	84·1	86·2
				Donations ..	0·5	0·9	0·7
Departmental Expenses incl. Library	24·1	24·4	24·5	Fees	10·4	10·2	9·2
				Other	1·3	1·9	1·3
Maintenance of Premises ..	14·2	15·1	15·6				
Administration ..	7·7	7·7	7·1				
Other	4·8	4·3	4·4				
	100·0	100·0	100·0		100·0	100·0	100·0

EXTRA-BUDGETARY ACTIVITIES

The College administers the finances of research projects supported from outside sources. At 31 July, 1960, there were 170 such projects. Receipts of research grants rose from £168,947 in 1958–59 to £207,088 in 1959–60, and payments from £170,569 to £192,793.

CAPITAL GRANTS

Capital Grants made during the year 1959–60 were as follows:

	£
Adaptation of 25 Gordon Street:	
Additional building work and professional fees	445
Purchase of further equipment for use by Ionic Physics Group II and Upper Atmospheric Research Group	11,174
Biological Sciences Block, Stage I: Increases in cost of labour and materials and additional professional fees	3,930
Biological Sciences Block, Stage II: Increases in cost of labour and materials and additional professional fees	8,432

	£
Biological Sciences Block, Stages III & IV:	
Professional fees	38,332
Increases in cost of labour and materials	6,634
Purchase of equipment	28,994
Purchase of furniture	11,414
Engineering Building, Stage I: Increases in cost of labour and materials, additional building work and professional fees	28,206
Engineering Building, Stage II: Increases in cost of labour and materials, additional building work and professional fees	3,317
New Refectory: Building work	9,299
Purchase of kitchen equipment	34,007
New Electricity Sub-Station: Building work and professional fees ..	27,336
Adaptations in Foster Court and Malet Place for various departments: Purchase of equipment and furniture	6,790
Repair and Adaptation of 5–10 Taviton Street for use as Student's Hostel: Additional professional fees	548
Conversion of 19, 20 & 23 Gordon Square for teaching purposes: Additional professional fees	128
Purchase of Freehold of 26, 28 & 30 Fitzroy Street and 24 & 26 Maple Street W1	10,000
	£228,986

SCHOLARSHIPS AND PRIZES

Expenditure amounted to £12,176 in 1959-60. Awards were made as under:

	Undergraduate £ *s.* *d.*	*Postgraduate* £ *s.* *d.*
From Endowments	2,128 10 2	2,001 4 7
„ Donations and Subscriptions	1,137 19 3	4,000 6 10
„ General Income	647 2 0	1,955 12 9
„ General Income: Exhibition Bursaries and special fee remissions	305 0 0	—
	£4,218 11 5	£7,957 4 2

LIABILITIES, CAPITAL ACCOUNT, RESERVES AND OTHER FUNDS

31.7.59		£	£
	College General Capital Account as at 1 August, 1959 ..	7,091,321	
	Add: Capital Grant for 26-30 Fitzroy Street and 24-26 Maple Street	10,000	
		7,101,321	
	Less: War Damage Compensation transferred to Unexpended Balances	5,152	
		7,096,169	
	Less: Amortization of Leasehold Properties	3,219	
7,091,321			7,092,950
43,476	Redemption Funds		47,574
535,396	Sundry Funds		710,647
7,424	Income and Expenditure Account		10,606
7,677,617			7,861,777
30,532	Loans		29,360
276,214	Unexpended Balances		235,690
132,437	Current Liabilities		162,086
8,116,800			8,288,913
1,019,332	Trust Funds		1,009,307

NOTE

The College freehold properties were revalued during 1959 on the basis of current land values and estimated building costs, arrived at by the College authorities with professional assistance from Quantity Surveyors. No value is included in capital account for furniture and equipment.

£9,136,132	£9,298,220

We have audited the above balance sheet and the annexed income and expenditure thereon, a true and fair view of the state of affairs of University College London at (*b*) moneys expended during the year out of non-recurrent grants received from the have been properly applied to those purposes.

3 Frederick's Place, Old Jewry, London, E.C.2.
22nd November, 1960.

ASSETS

31.7.59 £		£	£
	COLLEGE FREEHOLD LANDS AND BUILDINGS, at Valuation—see note below		
	As at 1 August 1959..	7,128,551	
7,128,551	*Add:* 26-30 Fitzroy Street and 24-26 Maple Street ..	12,500	7,141,051
	COLLEGE LEASEHOLD PROPERTIES, at Cost	95,872	
57,985	*Less:* Amortization to date	41,161	54,711
7,186,536			7,195,762
47,832	CAPITAL AND OTHER WORKS IN PROGRESS *less* capital grants and other capital receipts		44,942
	INVESTMENTS		
	General Funds	193,792	
	Earmarked Funds	444,396	
615,073		638,188	
13,500	*Less:* Depreciation	3,000	
(601,573)	(Market Value 31 July, 1960, £635,114)		635,188
53,667	EXPENDITURE RECOVERABLE FROM FUTURE GRANTS		77,830
61,236	CAPITAL WORKS—Expenditure in respect of Suspended Works		60,023
165,956	CURRENT ASSETS including prepayments		275,168
8,116,800			8,288,913
1,019,332	TRUST FUNDS		1,009,307
£9,136,132			£9,298,220

account. In our opinion (*a*) the said accounts give, on the basis indicated in the notes 31st July, 1960, and of the income and expenditure for the year ended on that date: University Court and other funds administered by the College for specific purposes

PRICE WATERHOUSE & CO.
Chartered Accountants

EXPENDITURE

1958–59 £		£	1959–60 £
	ADMINISTRATION		
81,510	Salaries	88,204	
5,014	Superannuation	5,374	
31,356	Advertising, Printing, Stationery, Postage, and Telephone	33,202	
5,508	Other Expenses (including Professional Fees)	7,549	
(123,388)			134,329
	ACADEMIC DEPARTMENTS		
712,044	Salaries of Teaching Staff	798,123	
64,233	Superannuation	71,507	
194,756	Departmental Wages (including Superannuation)	219,870	
131,370	Departmental and Laboratory Maintenance	148,259	
61,706	Libraries	70,292	
2,851	Other Expenses	2,034	
(1,166,960)			1,310,085
	MAINTENANCE OF PREMISES		
32,110	Rates	33,201	
3,164	Insurance	3,469	
	Rent and Other Payments for Use of Buildings:		
4,861	Halls of Residence	4,861	
1,270	Other Buildings	1,332	
		6,193	
52,860	Heat, Light, Water and Power	53,196	
118,686	Repairs and Maintenance of Buildings	152,722	
28,565	Wages of Porters and Attendants (including Superannuation)	30,952	
(241,516)			279,733
	GENERAL EDUCATIONAL		
154	Examiners' Fees	131	
13,276	Scholarships and Prizes	12,176	
981	Public Lectures	600	
1,500	Staff Attendance at Conferences	1,500	
339	Other Items	372	
(16,250)			14,779
	STUDENT FACILITIES AND AMENITIES		
21,300	Grant to Students' Union	23,800	
2,450	Salaries and Superannuation of Wardens of Halls of Residence	1,852	
—	Student Health Service	1,500	
2,264	Students' Purposes Fund	3,038	
225	Crabb Robinson Fund	205	
(26,239)			30,395
	MISCELLANEOUS		
10,120	Staff Pensions	11,599	
75	Grants from Benevolent Fund	425	
2,849	Interest on Overdrafts, etc	2,940	
7,160	Sundries	7,653	
	Deficits on Income and Expenditure Account for Halls of Residence, Refectories etc.:		
	Refectory:		
875	College Subvention	875	
2,000	Trading Loss written off	2,000	
556	Non-Academic Staff Canteen	253	
		3,128	
(23,635)			25,745
	CAPITAL EXPENDITURE MET FROM INCOME		
2,710	Gordon Street Frontage		2,800
1,600,698			1,797,866
4,393	Excess of Income over Expenditure for the year carried down		3,182
£1,605,091			£1,801,048
685	*Adaptations in Foster Court carried out in 1954*		—
7,424	Balance 31 July 1960 carried to Balance Sheet		10,606
£8,109			£10,606

INCOME

1958–59 £		1959–60 £	£
	ENDOWMENTS		
46,278	Income appropriated for purposes specified by Trust		47,857
	DONATIONS AND SUBSCRIPTIONS: Appropriated for:		
541	Special Purposes	292	
5,833	Scholarships and Bursaries	4,387	
6,187	Salaries and Superannuation	7,182	
2,144	Departmental and Laboratory Maintenance	320	
(14,705)			12,181
	GRANTS FROM UNIVERSITY COURT		
1,221,757	Court General	1,346,000	
128,056	Earmarked for Academic salary increases under 1957 Scheme	132,891	
—	Earmarked for Academic salary increases under 1960 Scheme	73,639	
(1,349,813)			1,552,530
	FEES		
163,097	General	165,155	
800	Examination and Registration	636	
343	Exhibition Bursaries and Special Remissions	456	
(164,240)			166,247
4,101	CONTRIBUTIONS FOR SERVICES RENDERED		4,672
	SURPLUS FROM INCOME AND EXPENDITURE ACCOUNTS FOR COLLEGE PROPERTIES, HALLS OF RESIDENCE, REFECTORIES, ETC.		
170	College Properties		136
25,784	OTHER ITEMS		17,425

NOTES

1. In addition to the Income and Expenditure shown, sums totalling £192,793 were spent on Extra-budgetary activities for which grants have been or will be received from outside sources.
2. Expenditure shown in this account has been increased by £9,493 representing a net increase in unexpended balances of revenue grants from University Court.

£1,605,091		£1,801,048
3,716	Balance as at 1 August 1959	7,424
4,393	Excess of Income over Expenditure for the year brought down	3,182
£8,109		£10,606

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